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United States and Canada

41st Edition

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The Association of American Medical Colleges (AAMC) has as its purpose the advancement of medical education and the nation's health. In pursuing this purpose, the Association works with many national and international organizations, institutions, and individuals interested in strengthening the quality of medical education at all levels, the search for biomedical knowledge, and the application of these tools to providing effective health care.

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Note: Oral Roberts University School of Medicine closed during the 1989-90 school year.

Foreword

The medical profession offers a wide variety of career options that are exciting, challenging, and rewarding. Although the environment in which medical services are provided has been changing rapidly and will continue to change, the physician's role as diagnostician, healer, and patient advocate remains central to the provision of health care in our country.

The medical profession has, since World War II, assumed an enviable position in our society. The relief of suffering, the rehabilitation of injury, and the prevention of disease and premature death have always been regarded as worthy human endeavors. Modern science has enabled the pursuit of such objectives to become not only esteemed but also effective. The physician is no longer called upon primarily to comfort patients and alleviate suffering. The modern physician has the means to cure, control, and prevent many killing and crippling conditions.

This success has led to an increased demand for medical services. Unprecedented affluence and an egalitarian ethic have stimulated the growth of a societal commitment to provide access to quality medical services without regard to personal ability to pay for them. As a consequence, by the mid-1960s the nation was mobilizing for a substantial expansion of its capacity for training health professionals.

The explosion of knowledge about biological processes and the consequent effectiveness of new clinical interventions demanded longer and more specialized training of physicians. The rigor and discipline necessary to complete the training required intelligence and motivation. Candidates with these qualities were available in increasingly large numbers because of the profession's intellectual challenges, the prospects for significant accomplishments, society's willingness to reward physicians, and the unparalleled degree of professional autonomy enjoyed by physicians.

It now appears that society has recognized limits to its ability, or at least its willingness, to finance medical care. The shortage of physicians perceived in the 1960s has given way to predictions of an impending surplus. Efforts to curb expenditures for care of the elderly and the indigent under cost-based reimbursement have resulted in new payment methodologies designed to foster price competition among the providers of care. The expenditure for research, while increasing, has not matched the growth in science professionals, so the proportion of meritorious research proposals funded each year has declined over the past two decades. New forms of health care are emerging. These new challenges are opportunities to an already attractive and desirable career.

After a period of rapid growth in the 1960s and 1970s that saw the number of medical schools increase by 50 percent and total class size more than double, the national medical education enterprise is now at a plateau. The size of the entering class has remained relatively stable since the beginning of this decade, and the number of total enrollees is actually dropping to reflect small decreases in class size at some institutions. One medical school closed in 1989. The number of applicants per medical school place has dropped from 2.8 in the mid-1970s to 1.6 per place. Women now comprise 39 percent of the applicant pool, compared with 11 percent in 1970. Minority applicants have increased from 8.1 to 11.3 percent of the applicant pool in the last decade. In 1975, 10 percent of all applicants were over age 27 compared with 16.7 percent in 1989.

This annually revised *Medical School Admission Requirements* book provides current and official information on premedical preparation and admission to medical school. It is designed to assist those who aspire to a medical career in approaching their goals realistically. It is also a source of assistance to premedical advisers in giving sound, informative, and practical advice to their students.

The prerequisites detailed in this volume by individual medical schools should not be the only guidance to those who seek a career in medicine. They reflect only the formal course work deemed necessary for admission to medical school. The preparation of an individual for a career in medicine must be much more extensive. In November 1984, the Association of American Medical Colleges (AAMC) published the final report of its Project Panel on the General Professional Education of the Physician and College Preparation for Medicine. The report states, "A broad and thorough baccalaureate education is an essential component of the general professional education of physicians." The report also stressed that the education of physicians includes teaching the following: values and attitudes that promote caring and concern for the individual and for society; concepts and principles derived from knowledge of the natural sciences, the social sciences, and the humanities; and skills in (a) the collection of information from and about patients, (b) the establishment of rapport with patients to facilitate both diagnosis and therapy, (c) the application of the scientific method to the analysis, synthesis, and management of clinical problems, (d) the identification and critical appraisal of the relevant literature in the assessment of clinical evidence, and (e) the continuation of effective learning.

The advancement of medical education, with all of the ramifications that affect the medical profession and the health sciences, has been the basic mission of the AAMC since its establishment in 1876. Through research, communications, and service, the AAMC seeks to serve both the medical schools and the public. It is active in student studies and services; educational measurement and research; minority affairs; curriculum surveys; medical school, teaching hospital, and health care services. The Association's publications encompass newsletters, books, special reports, and the monthly journal *Academic Medicine*. The AAMC also sponsors conferences and workshops and national and regional meetings of the institutional membership as well as those of the student affairs faculties. Its fall Annual Meeting serves as a forum for discussion and action on matters of immediate and long-range interest to the nation, the AAMC, and its membership. Many of the activities of the AAMC involve cooperation with other professional organizations and a large number of private and governmental agencies.

The 41st edition of *Medical School Admission Requirements* contains current information from 123 medical schools in the United States, 3 in Puerto Rico, and 16 in Canada. It should be noted that all references made to U.S. medical schools are also applicable to the Puerto Rican medical schools listed in Chapter 10.

In making this information available, the AAMC hopes that individuals considering careers in medicine will be better informed of the opportunities available and more capable of realistically assessing their potential for admission.

Robert G. Petersdorf, M.D.
AAMC President

Chapter 1

The Nature of Medical Education

Programs of medical education that award the degree of doctor of medicine in the United States and Canada are accredited by the Liaison Committee on Medical Education (LCME). This voluntary accrediting agency is sponsored by the Association of American Medical Colleges and the American Medical Association. All state medical practice laws recognize the accreditation status conferred by the LCME on the medical schools. Holders of the M.D. degree awarded by the LCME-accredited schools are provided the opportunity for licensure subject to certain examinations and other requirements imposed by each state. The LCME has traditionally avoided narrowly dictating curriculum content and has encouraged institutions, while meeting national minimal standards of quality, to approach the education of physicians in a variety of ways. This philosophy has led to a significant diversity of educational approaches. The extent of this diversity may be observed in the annual *AAMC Curriculum Directory*, which provides details about the curriculum of each U.S. and Canadian medical school.

The M.D. Curriculum

Medical school curricula, although quite varied, have as their goal the preparation of students to enter a three- to seven-year period of graduate medical education. Many curricula are problem-based as contrasted to topical and discipline focused. The teaching methodologies include lecture, small group discussion, self-instruction, and laboratory experience. Instruction is provided in anatomy, biochemistry, physiology, microbiology, pharmacology, pathology, and behavioral sciences during the first several academic periods after matriculation. These basic sciences may be taught independently by departmental faculties or by interdisciplinary groups of faculty. The interdisciplinary approach often focuses on organ systems. In this approach, instruction in anatomy, biochemistry, physiology, pharmacology, and pathology of an organ system, such as the heart and blood vessels, is integrated with normal and abnormal functions of the system. Whether the basic sciences are taught by discipline or in an interdisciplinary fashion, there is a major emphasis in almost all medical schools on introducing contact with clinical problems early in the curriculum. In some schools students begin to learn in their first year how to interview and examine patients; in other schools the first clinical contact may be demonstrations of patients by faculty. In all schools, however, by the third semester or fifth quarter, students have begun to learn how to obtain historical data from patients and conduct physical and selected basic laboratory examinations.

The last four semesters (six quarters) are usually devoted to education in the clinical setting. The immediate and specific aims of clinical education are to enable the student to establish desirable physician-patient relationships, to take a medical history, to conduct a physical examination, and to recognize the more familiar disease patterns. The overall aim, however, is to develop in the student both an understanding of the patient as a total human being and the sense of professional maturity that medicine demands.

The length and number of required clinical educational periods (clinical clerkships) vary from school to school. Clinical clerkships are usually required in internal medicine, obstetrics-gynecology, pediatrics, psychiatry, and surgery. Family medicine is also required in many schools. Clerkships vary in length from two to 12 weeks. During clerkships, students are usually assigned to a hospital clinical service where they assume responsibility for "working-up," that is, collecting data and presenting to the faculty a specified number of patient studies each week. Students also participate with post-M.D. trainees (residents) and faculty in caring for patients admitted to the clinical service to which they are assigned. When feasible, students are provided the opportunity to follow their patients before and after discharge from the hospital in ambulatory care settings. In these first clerkships, basic science knowledge and fundamental clinical skills are applied to the solution of diagnostic and treatment problems. Lectures and seminars augment the bedside learning provided during patient visits, so-called "rounds," with teaching physicians.

As students progress through these early clinical experiences, the range of opportunity for career development becomes apparent. Elective courses in the basic, behavioral, and clinical sciences permit students to explore career options. In many institutions, courses taken in other colleges of the university may be applied for credit toward the M.D. degree. Depending upon individual interests and talent, students are provided the opportunity to arrange part of their programs. During the first four semesters, the opportunity to take electives varies greatly among the schools. In the last two semesters before graduation, many schools permit students to arrange their entire programs on an elective basis. Clinical electives include clerkships in the primary specialties and in their many subspecialties. Elective opportunities in clinical settings are often provided in other academic centers or in nonacademic settings. These may vary from a preceptorship with a practicing physician to a period of time spent in a research laboratory. Such settings allow students to become acquainted with the career possibilities of the medical specialties of their interest while enriching their education.

At present a major emphasis is placed on encouraging students to develop careers in the primary care specialties of family medicine, general internal medicine, and general pediatrics. This emphasis should not, however, deter students with interests in research and/or teaching from seeking the M.D. degree. There is also a need for well prepared physician-scientists to translate the rapid advances in biomedical knowledge into clinical applications.

Evaluation, Promotion, Graduation

Each medical school's faculty is responsible for establishing the criteria for evaluating student performance, promotion, and graduation. Many faculties have written learning objectives for the overall medical education program and for each course or segment of the curriculum. Determining whether students have met these objectives is accomplished by a combination of direct observation and written and/or oral assessments. The frequency and pattern of evaluation vary from institution to institution. Some form of year-end comprehensive exam is often required. Sixty-nine schools currently require students to pass Part I of the National Board of Medical Examiners (NBME) examinations at the end of their basic science sequence or in order to graduate. Forty-eight schools require students to pass Part II of the NBME examinations to graduate.

Grading in less than half of the schools is pass/fail or honors/pass/fail. Regardless of the pattern or frequency of evaluation used, individual students' abilities are carefully scrutinized. This is particularly true in the clinical clerkships where one-to-one relationships between faculty and students permit close observation. Although student evaluation is rigorous, the rate of attrition in U.S. medical schools is low—slightly over 3 percent. Students with detected deficiencies in knowledge or skills are provided counseling and assistance. Usually, students who are having difficulty are offered the opportunity to repeat course work. However, all faculties reserve the right to drop students whose academic or personal characteristics are found to be incompatible with the professional responsibilities of a physician in this society.

Graduate Medical Education

Exposure to the various branches and aspects of medicine helps students to determine the course their education will take during their residency years. For students who have made a career decision to practice in a medical or surgical specialty, the requirements of the certifying board in that particular specialty will mold the choice of their first postgraduate year program. Specialties such as family medicine, internal medicine, pediatrics, and surgery encourage students to enter directly into first postgraduate year programs in that specialty and to continue in these programs until they have completed specialty board requirements. Satisfactory completion of three years of training in family medicine, internal medicine, or pediatrics generally qualifies an individual to sit for examination by the certifying boards of these specialties. Surgery requires five or more years of training depending upon the subspecialty chosen.

Students seeking careers in other specialties will find that they are encouraged or required to spend their first postgraduate year in a program offering a broad clinical experience. Examples of these specialties are anesthesiology, dermatology, psychiatry, and radiology. Usually these students will apply for a single year of internal medicine or for a diversified, transitional first postgraduate year with the expectation that they will enter a program in the specialty of their choice in their second postgraduate year. In some cases a year of broad clinical experience may be located in the same institution where subsequent subspecialty training occurs. In other instances, specialty training must be completed elsewhere.

By the beginning of their second postgraduate year, almost all students have made a career decision regarding the area of medicine in which they will specialize. The majority will eventually seek certification by one of the 24 specialty boards. Some will take one to two years of additional training in a subspecialty and will seek recognition for special competence in that subspecialty. Details regarding requirements for specialty certification can be found in the *Directory of Graduate Medical Education Programs*, published by the American Medical Association for the Accreditation Council for Graduate Medical Education. This publication is on file in medical libraries. Additional information can be obtained by writing to the respective boards at the address listed in the directory.

Special Programs

Individual medical schools offer a number of special programs. Many of these are listed in the *AAMC Curriculum Directory*. Specific details of the characteristics of a school's special programs may be obtained from that school. Several of the more common special programs are described below.

B.A. or B.S./M.D. Degree Programs. In 1989-90 a small number of U.S. medical schools provided limited programs beginning after high school that combined undergraduate college study and medical education. (These schools are listed in Table 9 in Chapter 9 and are fully described in Chapter 12.) Students are admitted provisionally to these programs based upon their high school credentials and, if their performance is satisfactory, are permitted to progress to the M.D. degree. This generally requires six or seven years. Students interested in this type of program should request information from the prospective medical school as early as possible.

Accelerated Programs. There are options for accelerating the standard four-year medical school curriculum. Since these options vary among schools, interested students should investigate the possibilities by consulting the dean's office at the institutions to which they intend to apply.

Research Training. There is continuing need for physicians who have ability both to conduct research and interpret research findings. Students interested in research will find that most faculties are highly receptive to allowing them to engage in research projects. Depending upon the availability of resources and the student's willingness to invest time in research, programs ranging from a few months to a year or more can be arranged. These opportunities can be used by students to explore their creative talents for biomedical research. Such exploration can help students decide whether to pursue preparation for a career in academic medicine during graduate medical education.

M.D.-Ph.D. Degree Programs. In 1989-90, 110 schools provided students the opportunity to earn both the M.D. and the Ph.D. in an area pertinent to medicine. These schools and some of the disciplines in which the Ph.D. is offered are listed in Table 1-A. This table does not include all disciplines and should only be used as a guide.

Table 1-A

Combined M.D./Ph.D. Programs at U.S. Medical Schools, 1989–90

Medical School	All Disciplines	Anatomy	Biochemistry	Biomedical Engineering	Biophysics	Cell Biology	Genetics	Immunology	Microbiology	Molecular Biology	Neuroscience	Pathology	Pharmacology	Physiology	Other Disciplines	Masters	M.D./M.P.H.
Alabama																	
Alabama		•	•	•	•	•			•		•	•	•	•			
South Alabama			•			•		•	•				•	•			
Arizona																	
Arizona		•	•			•				•			•	•			
California																	
University of California																	
Davis		•	•	•	•		•		•			•		•	•	•	
Irvine	•																
Los Angeles	•																
San Diego			•	•							•	•	•	•	•		•
San Francisco		•	•	•			•	•	•		•	•	•	•	•	•	
Loma Linda		•	•						•				•	•		•	
Southern California	•																
Stanford			•			•	•	•	•		•		•	•	•		
Colorado																	
Colorado		•	•		•		•		•			•	•	•	•	•	
Connecticut																	
Connecticut			•			•		•		•	•		•		•		
Yale	•																•
District of Columbia																	
George Washington	•															•	•
Georgetown	•															•	
Howard		•											•				
Florida																	
Florida		•	•			•		•	•	•	•	•	•	•		•	
Miami		•	•		•			•	•			•	•		•		
Georgia																	
Emory					•		•	•	•	•					•		•
Medical College of Georgia		•	•						•				•	•	•	•	
Hawaii																	
Hawaii			•		•		•						•	•	•	•	•
Illinois																	
Chicago Medical		•	•						•			•	•	•	•	•	
Chicago-Pritzker	•															•	
Illinois		•	•		•	•	•	•	•			•	•	•	•	•	
Loyola-Stritch		•	•		•				•				•	•		•	
Northwestern	•															•	•
Rush		•	•					•	•				•	•		•	
Indiana																	
Indiana		•	•		•		•		•			•	•	•		•	
Iowa																	
Iowa		•	•				•		•		•		•	•	•	•	
Kansas																	
Kansas	•															•	

Table 1-A (Continued)

Combined M.D./Ph.D. Programs at U.S. Medical Schools, 1989–90

Medical School	All Disciplines	Anatomy	Biochemistry	Biomedical Engineering	Biophysics	Cell Biology	Genetics	Immunology	Microbiology	Molecular Biology	Neurosciences	Pathology	Pharmacology	Physiology	Other Disciplines	Masters	M.D./M.P.H.
Kentucky																	
Kentucky		●	●		●			●	●		●		●	●		●	
Louisville		●	●		●			●	●		●		●	●			
Louisiana																	
Louisiana State-New Orleans	●																
Louisiana State-Shreveport		●	●						●				●	●			
Tulane		●	●	●			●	●	●		●		●	●		●	●
Maryland																	
Johns Hopkins		●	●	●	●	●	●	●		●	●		●	●	●	●	
Maryland	●																
Massachusetts																	
Boston	●															●	●
Harvard		●	●			●	●	●	●			●	●	●			●
Massachusetts			●			●	●	●	●				●	●			
Tufts		●	●			●		●	●		●			●			●
Michigan																	
Michigan State	●																
University of Michigan		●	●				●		●				●	●		●	
Wayne State		●	●					●	●			●	●	●			
Minnesota																	
Mayo			●		●			●		●			●	●			
Minnesota-Minneapolis	●																
Mississippi																	
Mississippi		●	●						●			●	●	●	●		
Missouri																	
Missouri-Columbia		●	●						●			●	●	●		●	
Saint Louis		●	●						●			●	●	●			
Washington University		●	●			●	●	●	●			●	●	●		●	
Nebraska																	
Creighton		●	●						●				●	●		●	
Nebraska	●																
Nevada																	
Nevada		●	●			●				●			●	●			
New Hampshire																	
Dartmouth			●	●									●	●			
New Jersey																	
New Jersey Medical		●	●						●			●	●	●			
Robert Wood Johnson	●																●
New Mexico																	
New Mexico	●																
New York																	
Albany		●	●					●	●			●	●				
Albert Einstein		●	●		●	●	●	●	●		●	●	●	●	●		
Columbia		●	●				●		●			●	●	●	●		●
Cornell			●		●	●	●	●		●	●		●	●			

Table 1-A (Continued)

Combined M.D./Ph.D. Programs at U.S. Medical Schools, 1989-90

Medical School	All Disciplines	Anatomy	Biochemistry	Biomedical Engineering	Biophysics	Cell Biology	Genetics	Immunology	Microbiology	Molecular Biology	Neurosciences	Pathology	Pharmacology	Physiology	Other Disciplines	Minorities	M.D./M.P.H.
New York (Continued)																	
Mount Sinai	●																
New York Medical		●	●						●			●	●	●			●
New York University															●		
Rochester	●															●	
SUNY-Brooklyn		●	●						●			●	●	●			
SUNY-Buffalo	●															●	
SUNY-Stony Brook		●	●						●			●	●	●			
SUNY-Syracuse		●	●			●		●	●	●			●	●	●		
North Carolina																	
Duke		●	●	●		●			●		●	●	●	●	●		●
East Carolina	●																
North Carolina		●	●	●			●		●		●	●	●	●	●	●	●
North Dakota																	
North Dakota		●	●			●		●	●	●			●	●			
Ohio																	
Case Western Reserve	●																
Cincinnati		●	●		●	●			●			●	●	●	●		
Medical College of Ohio	●															●	
Northeastern Ohio	●																
Ohio State	●															●	
Wright State															●		
Oklahoma																	
Oklahoma		●	●		●			●	●	●			●	●			
Oregon																	
Oregon		●	●			●	●		●			●	●	●	●		
Pennsylvania																	
Hahnemann		●	●					●	●	●	●	●	●	●	●	●	
Jefferson		●	●						●			●	●	●			
Medical College of Pennsylvania		●	●					●	●			●	●	●		●	
Pennsylvania State	●																
University of Pennsylvania	●															●	
Pittsburgh		●	●						●		●	●	●	●	●		
Temple	●																
Rhode Island																	
Brown			●			●				●	●			●	●	●	●
South Carolina																	
Medical University of South Carolina		●	●			●		●	●	●		●		●	●		
Tennessee																	
East Tennessee		●	●						●			●	●	●		●	
Meharry			●						●				●	●		●	
Tennessee-Memphis		●	●						●			●	●	●		●	
Vanderbilt			●	●	●	●			●			●	●	●		●	

Table 1-A (Continued)

Combined M.D./Ph.D. Programs at U.S. Medical Schools, 1989–90

Medical School	All Disciplines	Anatomy	Biochemistry	Biomedical Engineering	Biophysics	Cell Biology	Genetics	Immunology	Microbiology	Molecular Biology	Neurosciences	Pathology	Pharmacology	Physiology	Other Disciplines	Masters	M.D./M.P.H.
Texas																	
Baylor			•		•	•	•	•	•	•	•		•	•	•		
Texas A&M		•	•	•					•				•	•			
Texas Tech			•			•			•					•			
University of Texas																	
Dallas (Southwestern)			•			•		•	•	•			•	•			
Galveston	•																
Houston	•																•
Utah																	
Utah		•	•		•				•			•	•	•			
Vermont																	
Vermont		•	•						•				•	•		•	
Virginia																	
Medical College of Virginia	•															•	
University of Virginia		•	•		•				•	•	•		•	•			
Washington																	
University of Washington		•	•	•	•				•			•	•	•			
West Virginia																	
Marshall																•	
West Virginia		•	•	•		•		•	•	•			•	•	•		
Wisconsin																	
Medical College of Wisconsin		•	•						•			•	•	•			
University of Wisconsin	•															•	

Medical Scientist Training Program (MSTP). In recognition of a national need for medical scientists trained in both basic and clinical sciences, the National Institute of General Medical Sciences supports a combined M.D.-Ph.D. program, known as the Medical Scientist Training Program, at 29 schools. The goal of the MSTP is to provide combined scientific and medical training to highly motivated students with outstanding research and academic potential.

Medical scientists differ from most basic scientists in having had the medical training required to investigate human diseases. They differ from most clinicians in having had extensive research experience and training in the biological, chemical, physical, or behavioral sciences needed to bring the fundamental knowledge and insight of these disciplines into clinical investigation. The federal government supported approximately 734 MSTP students in 1989.

MSTP grants are made to universities and their medical schools, which are responsible for program operation and trainee selection. About 120 positions for new students are available each year. Therefore, selection for admission is highly competitive. For those selected, the program provides a maximum of six years of support, although an individual's course of study for the combined degree may take somewhat longer. The support provided includes a stipend of $8,500 a year plus tuition.

Continued support for an individual student is subject to annual renewal based on the trainee's satisfactory performance in the program and the institution's successful competition for funds at the time of grant renewal every three to five years. Since MSTP grants are a type of National Research Service Award (NRSA), trainees, who must be citizens or permanent residents of the United States, are subject to NRSA payback provisions. This means that a trainee incurs an obligation that is usually satisfied by serving in a health-related research or teaching position for a period equal to one year less than the period of NRSA support.

Individuals who wish to enter the MSTP should contact the participating institution(s) of their choice for curriculum information and admission requirements.

The 29 schools offering the MSTP in 1989-90 are listed in Table 1-B. Other information about the MSTP may be obtained by contacting:

Program Administrator
Medical Scientist Training Program
Room 905, Westwood Building
National Institutes of Health
Bethesda, Maryland 20892
Telephone: (301) 496-7001

Independent Study. Several schools provide an option for students to pursue selected required courses of study at their own pace, using learning techniques of their own choosing. Characteristically, students engaged in independent study must meet periodically with faculty tutors to demonstrate their progress and must pass the comprehensive exams required of all students for promotion and graduation.

M.D.-J.D. Degree Programs. In 1989-90 six schools (Chicago-Pritzker, Duke, University of Illinois at Urbana-Champaign, Southern Illinois, University of Pennsylvania, and Yale) offered programs that allowed the student the opportunity to earn both the M.D. and the J.D. degrees.

Table 1-B

U.S. Medical Schools Offering Medical Scientist Training Programs Supported by National Institutes of Health, 1989-90

Albert Einstein
Baylor
California, Los Angeles (UCLA)
California, San Diego
California, San Francisco
Case Western Reserve
Chicago-Pritzker
Columbia
Cornell*
Duke
Emory
Harvard†
Iowa
Johns Hopkins
Michigan, University of
Minnesota, University of
Mount Sinai
New York University
Northwestern
Pennsylvania, University of
Pittsburgh‡
Rochester
Stanford
Texas, Dallas (Southwestern)
Vanderbilt
Virginia, University of
Washington University (St. Louis)
Washington, University of
Yale

*Conducted in cooperation with Rockefeller University.
†Conducted in cooperation with the Massachusetts Institute of Technology.
‡Conducted in cooperation with Carnegie-Mellon University.

Chapter 2

Premedical Planning

This chapter presents general recommendations for the college student who is looking ahead to medical school and seeking information about criteria for admission in order to plan a program that satisfies academic requirements as well as enhances the student's own intellectual, personal, and social development. Supplementary information for students from minority groups traditionally underrepresented in medicine is presented in Chapter 7. Those who are in the very early stages of educational planning for careers in medicine will be interested in the suggestions for high school students given in chapters 9 and 12.

Although the process of selecting medical school applicants necessarily involves a variety of considerations, some of which are discussed in Chapter 3, it should be emphasized that medical schools are concerned with academic, nonacademic, and personal characteristics of applicants. As medical schools respond to national social issues and problems in medical care, they are making efforts to select individuals whose personal and career goals appear to be compatible with the needs of society. Major curriculum revisions at some institutions have been designed to encourage students to pursue careers in primary care medicine and careers in underserved geographical areas. Some schools have designed curricula with a problem-based approach. Schools have broadened the socioeconomic diversity of entering medical school classes and expanded educational opportunities for men and women who are members of racial/ethnic groups that have been underrepresented in medicine. Prospective applicants should give careful attention to the selection factors and school characteristics presented for each medical school listed in Chapter 10.

Undergraduate Academic Program

The medical profession needs individuals from diverse educational backgrounds who will bring to the profession a variety of talents and interests. Educational philosophies and goals, systems of education, and specific undergraduate course requirements and other qualifications for admission vary among the nation's medical schools. All, however, recognize the importance of a broad education—a strong foundation in the natural sciences (biology, chemistry, mathematics, and physics), highly developed communication skills, and a solid background in the social sciences and humanities.

Principles and vocabularies of the sciences basic to medicine must be understood by entering medical students. A thorough understanding of modern concepts in biology, chemistry, and physics is necessary since the study and practice of medicine are based on these disciplines. In order to achieve the minimum level of understanding, medical schools generally require one year of biology, two years of chemistry (through organic chemistry), and one year of physics (Table 2-A). The courses should be rigorous and, in general, acceptable for students majoring in those areas. The courses should include adequate laboratory experience. Candidates for medical school must study in these areas in order to (1) confirm their interest in and capacity for proceeding further in these fields, (2) enable medical schools to estimate their achievement and potential in these areas, and (3) meet the requirements of state laws governing physician licensure.

Additional science courses are not required nor should they be formally recommended. Students may take upper level science courses out of educational interest or to fulfill the requirements of their major. For students who wish to pursue other disciplines in depth, additional science courses that would be required or recommended by medical schools may be restrictive. The practice of taking additional science courses that cover material taught within the medical school curriculum in the belief that they will be useful in gaining admission to and succeeding in medical school should not be recommended.

Although only a small number of medical schools demand a specific course sequence in mathematics, all value mathematical competence, and many require or strongly recommend mathematics courses. Mathematics courses provide a good basis for the student's understanding of rigorous courses in chemistry, physics, and modern biology. Increasing numbers of medical curricula also utilize computer theory and statistics.

Breadth of education is expected. The pursuit of some discipline in depth is encouraged. A successful medical student must effectively acquire, synthesize, apply, and communicate information. These are skills which can be developed through a great variety of academic disciplines. Studies in the humanities and in the social and behavioral sciences and opportunities for the development of effective writing skills are strongly suggested.

Honors courses and independent study or research are encouraged, because they permit the student to explore, in depth, an area of knowledge and provide a scholarly experience which will facilitate a lifelong habit of self-education.

How then does one achieve the basic goals of college and satisfy the academic requirements for admission to medical school? In chapters 10, 11, and 12, each medical school presents information about its specific requirements, alternatives, and special programs. Schools attempt to limit absolute admission requirements to allow latitude for individualized undergraduate programs of study.

Flexibility in premedical education is acceptable. In order to provide flexibility to students preparing for a career in medicine, medical schools will accept options to the required undergraduate sequences as well as the utilization of advanced placement credits and credit by examination, provided that the courses taken are as rigorous as the traditional courses and provide a strong preparation for medical studies.

Table 2-A

Subjects Required by 10 or More U.S. Medical Schools, 1991-92 Entering Class

Required Subject	No. of Schools ($n = 117$)
Physics	117
Organic chemistry	116
Inorganic (general) chemistry	115
English	83
Biology	69
Biology or zoology	48
Calculus	20
College mathematics	18
Other biology or chemistry	12
Humanities	11
Behavioral and/or social sciences	11

NOTE: Figures based on data provided fall 1989. Nine of the 126 medical schools (Arkansas, University of Illinois, Southern Illinois, Missouri—Kansas City, Northeastern Ohio, Northwestern, University of Pennsylvania, Medical University of South Carolina, and Wayne State) did not indicate specific course requirements and are not included in the tabulations.

Although most medical schools require a minimum of three years of undergraduate work before entrance to their regular M.D. programs, the majority of entering medical students have four years of college and a baccalaureate degree.

Undergraduate Major

The selection of an undergraduate major area of study should be a careful and considered decision. Students should select a major area of study that is of interest and that will provide a foundation of knowledge necessary for the pursuit of several career alternatives. Students who select a major area of study solely or primarily because of the perception that it will enhance the chance of acceptance to a school of medicine are not making a decision in their best interest.

It should be strongly emphasized that a science major is not a prerequisite for medical school, and students should not major in science simply because they believe this will increase their chances for acceptance. Medical schools are most concerned with the overall quality and scope of undergraduate work. The schools also recognize the desirability of including students with a broad variety of interests and backgrounds in medical school classes. It is true that nonscience majors who take a minimum number of science courses to meet medical school requirements must do well in those courses to ensure adequate preparation and favorable consideration by admission committees. For most physicians, however, the undergraduate years are the last available opportunity to pursue in depth a nonscience subject of interest, and all who hope to practice medicine should bear this in mind when selecting an undergraduate major.

Table 2-B indicates that, while there is some variation at the national level in the acceptance rates of applicants from different major fields of study in liberal arts programs, those majoring in certain areas of the humanities, for example, fared as well or better in gaining acceptance to the 1989–90 entering class as applicants majoring in certain scientific disciplines. These data also show, however, that students who concentrated in such professional fields as medical technology, nursing, and pharmacy were less successful in gaining admission to medical school that year.

Selection Factors

Decisions about the undergraduate academic program, discussed in the preceding sections, can be made more realistically if the student knows about the medical school selection process. Admission committees do not seek a stereotyped, ideal combination of characteristics in their applicants; diversity within an entering class is considered highly desirable. Chapter 3 discusses specific considerations for an applicant in choosing medical schools to which to apply. The following paragraphs present a general discussion of the intellectual, personal, and social traits rated most highly by medical schools in choosing their students.

The entries of all medical schools in chapters 10, 11, and 12 refer to a desired high level of scholastic achievement and intellectual potential. These are measured, as discussed in Chapter 5, by college grades, particularly science grades; recommendations from undergraduate faculty, including premedical advisers; Medical College Admission Test (MCAT) scores; interview assessments; and occasionally the use of psychological tests of educational development, mental aptitude, and nonintellectual qualities.

College grades are perhaps the most important single predictor of medical school performance, although medical schools do recognize that grading policies may differ from one college to another or even within departments of the same institution. Most first-year medical students have achieved undergraduate averages of A or B, and in 1989–90, 1.5 percent of the applicants accepted to the first-year class had grade-point averages (GPAs) of 2.5 or below. The mean undergraduate GPA of first-year entrants for the 1989–90 entering class was 3.41. In recent years those individuals admitted with less than a 3.00 GPA have either achieved strikingly improved performances in their later years of college or demonstrated other characteristics deemed desirable for medicine by the various medical school admission committees.

It is also important for students to demonstrate an understanding of course content in ways other than by grades achieved. For example, the student who undertakes special projects or independently investigates questions raised in course work may provide evidence of ability that is not reflected by grades alone.

There is a universal feeling that medicine demands superior personal attributes of its students and practitioners. Integrity and responsibility assume major importance in the research laboratory and classroom as well as in relationships with patients and colleagues. Medical schools also look for evidence of other traits such as leadership, social maturity, purpose, motivation, initiative, curiosity, common sense, perseverance, and breadth of interests.

As discussed previously, anyone who is considering a career as a physician must be able to relate to people effectively. The increasing emphasis on a team approach to medical care adds another dimension to the need for this skill.

Because of the demanding nature of both the training for and the practice of medicine, motivation is perhaps the most salient nonintellectual trait sought by most admission committees. It is assumed that a qualified applicant to medical school will have not only a general understanding of the profession but also a demonstrated interest in and knowledge of what the field of medicine encompasses.

Table 2-B

Acceptance to Medical School by Undergraduate Major, 1989–90 Entering Class

	Total Applicants		Accepted Applicants	
Undergraduate Major	No.	% of Total	No.	% of Major
Biological Sciences				
Biology	10,184	37.8	6,178	60.7
Microbiology	690	2.6	429	62.2
Physiology	319	1.2	197	61.8
Science (other biology)	504	1.9	362	71.8
Zoology	914	3.4	548	60.0
Subtotal	12,611	46.9	7,714	61.2
Physical Sciences				
Biochemistry	1,393	5.2	991	71.1
Biomedical engineering	264	1.0	208	78.8
Chemical engineering	175	0.7	120	68.6
Chemistry	2,202	8.2	1,480	67.2
Chemistry and biology	257	1.0	163	63.4
Electrical engineering	218	0.8	157	72.0
Mathematics	227	0.8	139	61.2
Natural sciences	213	0.8	148	69.5
Physics	148	0.5	98	66.2
Science (general)	111	0.4	65	58.6
Subtotal	5,208	19.3	3,569	68.5
Nonscience Subjects				
Anthropology	113	0.4	83	73.5
Economics	239	0.9	178	74.5
English	309	1.1	227	73.5
Foreign language	187	0.7	117	62.6
History	246	0.9	160	65.0
Philosophy	138	0.5	99	71.7
Political science	134	0.5	98	73.1
Psychobiology	297	1.1	216	72.7
Psychology	1,265	4.7	765	60.5
Sociology	96	0.4	53	55.2
Subtotal	3,024	11.2	1,996	66.0
Other Health Professions				
Medical technology	219	0.8	105	47.9
Nursing	317	1.2	136	42.9
Pharmacy	239	0.9	123	51.5
Subtotal	775	2.9	364	47.0
Mixed Disciplines				
Double major (science)	503	1.9	332	66.0
Double major (nonscience)	703	2.6	494	70.3
Interdisciplinary studies	120	0.4	88	73.3
Premedicine	647	2.4	409	63.2
Preprofessional	136	0.5	100	73.5
Subtotal	2,109	7.8	1,423	67.5
Other*	3,188	11.8	1,909	59.9
Grand Total	26,915	100.0	16,975	63.1

*Those applicants not reporting an undergraduate major are included in "Other."

This could be accomplished, in part, by having an experience in a health care setting (especially in a clinical setting), talking with health professionals, reading appropriate literature, and experiencing an exposure to research at the undergraduate level.

The personal and social traits that medical school admission committees seek in prospective students are difficult to measure. Each school has its own standards and recognizes that the student who would be happy and productive in one school setting would not necessarily be so in another. Nonintellectual characteristics are usually evaluated by means of reports from undergraduate colleges, interviews, application forms, and autobiographical sketches. Few schools employ interest and personality inventories.

In all aspects of premedical planning, the prospective medical student is encouraged to consider not only the information and advice contained in this publication but also the resources and counseling available from undergraduate premedical advisers. The premedical adviser is the primary source of information and guidance in preparing students and advancing undergraduate education for the medical profession. Effective communication between medical schools and pre-medical advisers is a vital element in the admission process. Another source of value to both applicants and advisers is the annual medical education issue of the *Journal of the American Medical Association.* The cost of the 1988–1989 issue (Vol. 262, No. 8, August 25, 1989) is $5.00; copies are available from:

Department of Fulfillment
American Medical Association
535 North Dearborn Street
Chicago, Illinois 60610

Also, the Association of American Medical Colleges publishes a document entitled, *Trends in Medical School Applicants and Matriculants.* This publication summarizes the demographic characteristics and selected academic qualifications of medical school applicants and matriculants. The latest report encompasses the years 1981–1989 and is available for $13.00 plus $2.50 postage and handling from:

Membership and Publication Orders
Association of American Medical Colleges
Suite 200
One Dupont Circle, N.W.
Washington, D.C. 20036

Chapter 3

Deciding Whether and Where To Apply to Medical School

The practice of medicine has never been more challenging and rewarding, offered more opportunities for accomplishing good, or provided more selection in styles of practice and practice patterns than it does today. As it has always been, deciding whether to apply to medical school must be the outcome of serious personal reflection about one's motivations and aspirations as these relate to the realities of medical practice such as working with sick people, continuing study for seven to 11 years after college, and committing to lifelong learning. In this process of self-exploration, candid discussions with premedical advisers, knowledgeable faculty, or one's personal physician about the reasons for wanting to be a physician can be very helpful. Consulting books about medical education is also a good idea.

Two very important historical events have shaped the modern practice of medicine. The first was the onset of the present high technology scientific era by the investment of large amounts of federal money into research following World War II. The second was the establishment of the Medicare and Medicaid programs to finance health care. As medical practice accommodates these forces, new approaches to delivery and to reimbursement of physician and hospital services are occurring to achieve the most cost-efficient system which will care for the largest number of individuals. At the same time, predictable population and economic trends are challenging physicians to develop more alternatives to delivering cost-efficient, effective care. Research in health service has become as important as biologic scientific investigation. As one considers a medical career, consider the challenges of an increasing proportion of the population over age 65 at a rate more rapid than that of younger age groups. Older persons require relatively more specialized medical assistance, so physicians, especially those entering or practicing primary care, are challenged to prepare for these changes. The economics of health care is in flux with all payers and carers looking for ways to provide services at the least cost. The movement of care to the outpatient setting is a major change to seek less costly sites. Hospitals as a result have less occupancy and have only the very ill in their beds. Careers are changing to accommodate these differing characteristics. Some hospitals are changing their mission toward chronic nursing home care, while others have closed. Medical education has moved into the new treatment settings. Payers have added complex monitoring procedures to influence and control health care expenditures. Physician reimbursement patterns are changing to more reward the time-intensive cognitive activities and to discourage elective procedural activities. More and more physicians will opt to work for corporations, such as health maintenance organizations (HMOs) or large group practices. Physicians will need to consider their income targets and need for autonomy and independent decision-making in the light of this new health care delivery environment. The role of the computer and new forms of information transfer are adding a new dimension to availability of patient and biomedical information. The full potential to aid and enrich practice and education has yet to be realized. The more complex therapies and the special opportunities for care are presenting

(Text continued on page 19.)

Table 3-A

Percent of Applicants Accepted by Undergraduate College GPA and by Scores on the MCAT, 1989-90 Entering Class

Overall GPA	Scores on the Medical College Admission Test								
	1-4	5	6	7	8	9	10	11	12-15
Biology Scores									
3.76-4.00	45.0	50.0	64.7	81.9	87.1	93.5	94.4	94.0	97.3
3.51-3.75	17.7	45.1	48.7	70.8	79.3	86.1	91.5	94.1	94.0
3.26-3.50	20.4	29.1	36.3	50.3	66.7	77.1	85.5	87.5	92.6
3.01-3.25	14.4	33.5	28.5	40.6	55.4	62.2	74.3	81.0	85.8
2.76-3.00	9.4	13.4	27.6	29.6	36.9	50.4	62.5	62.5	71.7
0.01-2.75	4.3	14.7	15.3	21.2	27.9	36.3	46.2	57.7	61.4
Chemistry Scores									
3.76-4.00	23.5	63.2	69.5	86.5	89.9	94.0	93.6	94.6	96.6
3.51-3.75	22.6	45.2	56.3	72.1	83.9	89.1	93.5	93.8	95.4
3.26-3.50	10.7	28.1	47.5	60.2	73.0	81.4	86.6	90.3	92.9
3.01-3.25	17.4	30.2	34.0	47.7	58.7	71.9	80.2	82.5	89.1
2.76-3.00	12.7	19.2	29.6	34.9	48.0	51.3	65.8	67.2	83.2
0.01-2.75	4.6	12.7	25.0	26.7	35.8	44.7	45.6	50.0	63.8
Physics Scores									
3.76-4.00	65.2	57.4	72.3	82.9	89.3	94.7	94.7	95.2	95.9
3.51-3.75	28.9	42.0	62.3	71.7	84.4	89.5	92.3	94.2	95.3
3.26-3.50	19.4	32.1	44.7	57.8	74.2	81.7	87.2	89.4	92.1
3.01-3.25	18.7	29.7	34.0	46.8	57.9	70.4	79.5	83.3	86.3
2.76-3.00	17.6	24.9	29.9	34.8	43.4	50.0	62.1	66.7	71.9
0.01-2.75	5.9	15.4	24.9	28.8	32.1	38.0	43.2	48.3	68.8
Science Problems Scores									
3.76-4.00	38.5	53.5	65.9	83.1	89.3	93.2	94.1	96.4	96.7
3.51-3.75	19.7	36.9	55.1	72.6	81.5	90.5	94.5	94.5	95.1
3.26-3.50	10.1	28.5	37.6	56.2	73.4	82.4	89.7	91.6	92.5
3.01-3.25	12.1	28.6	31.0	43.5	60.2	71.3	82.9	84.7	86.9
2.76-3.00	12.1	17.5	27.1	31.6	45.7	56.1	64.1	75.8	80.9
0.01-2.75	4.3	12.5	21.7	30.1	35.6	41.3	44.6	58.3	58.7
Skills Analysis: Reading Scores									
3.76-4.00	60.8	84.1	80.7	87.8	89.3	93.0	96.3	96.2	94.1
3.51-3.75	48.8	60.0	69.6	76.3	83.8	89.6	90.2	93.4	94.2
3.26-3.50	31.0	45.4	56.7	60.3	70.4	77.7	85.8	89.4	91.9
3.01-3.25	29.0	38.9	37.6	50.0	58.9	67.3	72.9	79.1	86.0
2.76-3.00	19.3	30.7	35.3	35.8	38.0	51.4	57.3	66.4	61.0
0.01-2.75	10.0	20.9	20.5	25.7	29.2	39.0	36.1	50.0	52.0
Skills Analysis: Quantitative Scores									
3.76-4.00	57.4	70.5	84.0	89.7	93.5	94.2	94.7	95.7	95.5
3.51-3.75	41.7	55.8	68.2	81.7	87.9	90.8	92.3	95.0	94.8
3.26-3.50	27.5	45.5	58.0	66.6	76.4	82.5	84.6	88.1	92.4
3.01-3.25	29.1	34.4	40.9	53.1	64.4	70.7	76.6	79.3	86.7
2.76-3.00	23.8	28.1	35.2	35.2	42.8	52.4	59.3	67.9	68.5
0.01-2.75	11.8	23.2	24.8	31.0	30.4	30.9	45.5	44.6	51.7

complicated ethical and social questions which demand the unique guidance of the health care team members and new interrelationships among the several health care professions. The trends named here are by no means all of the important changes that are occurring in the medical profession. Prospective medical students will want to seek more information by reading nationally distributed newspapers as well as medical periodicals, such as *The New England Journal of Medicine*. A particularly useful article is "Medical Practice in the 1990's and Beyond," which appeared in the September 1985 issue of *The New Physician*.

If convinced that they genuinely want to study and practice medicine, students then must decide whether they have a moderately good chance of being accepted to medical school, and, if so, where to apply. The following information is provided for students who wish to assess their chances for success and, if they decide these are promising, to consider which medical schools offer them the best prospects for admission.

Chances for Acceptance

The opportunity to gain admission to medical school has increased greatly in the past five years. In 1985, 49 percent of the 32,893 candidates who applied matriculated. In 1989, 59 percent of 26,915 matriculated. Although many factors other than college grades and test scores enter into the admission decision, it is unquestionably true that these two factors receive considerable attention in the preliminary review of each application. In 1988, 65 percent of accepted applicants had undergraduate grade-point averages (GPAs) of 3.3 or above. The majority of accepted applicants with GPAs below 3.3 achieved relatively high scores on the nationally standardized preadmission examination for medical school applicants, the Medical College Admission Test (MCAT). Table 3-A displays the acceptance rate for applicants to the 1989-90 entering class with various combinations of GPA and MCAT credentials. Additional information about MCAT score distributions is provided to admission officers and premedical advisers. Students, in consultation with their advisers, should be able to determine whether their MCAT scores are sufficiently competitive to compensate for relatively low grades. Students should keep in mind also that admission committees understand that grades may not measure a student's true ability; extenuating circumstances, such as prolonged illness, unsettled family circumstances, or the need to work while in school, can affect academic performance. Still, fewer than 12 percent of recently accepted applicants have had GPAs lower than 3.0.

The relationship between MCAT performance and performance in specific undergraduate courses can be evaluated through the examination of individual test scores. Separate scores are reported in each of three science areas—biology, chemistry, and physics. A low score in physics, for example, can be easily explained if a student has not completed introductory college level physics prior to taking the test. Admission committees will take such circumstances into consideration when evaluating an application.

It cannot be emphasized too much that medical schools consider not only grades and test scores but also such factors as personality, character, place of residence, career plans, letters of evaluation, stringency of course work, interview impressions, and whether the applicant is from a minority and/or disadvantaged background. Again, students are encouraged to consult their premedical advisers, who ordinarily have access to pertinent data regarding the success of applicants from their institutions.

Characteristics of Schools

All medical schools listed in this book maintain high standards necessary for accreditation by the Liaison Committee on Medical Education. Most have essentially the same basic undergraduate course requirements, and all seek to admit students with demonstrated learning, problem-solving, and communication skills and with the qualities of integrity, maturity, and caring.

The Association of American Medical Colleges (AAMC) and all its member schools also strongly endorse the principle of equal opportunity for education and practice in the health professions without regard to sex, age, race, creed, national origin, or handicap. (See AAMC Position on Equal Opportunity.)

Medical schools differ, however, with respect to other factors, for example, policies and requirements regarding state or regional residence. They also vary considerably in such characteristics as size of student body, size of faculty, number and type of patients with whom medical students will have contact, general philosophy of education, geographic location, student services, sources of financial support, and opportunities for special activities such as research. Moreover, among medical schools opportunities for postgraduate study and the aspects of medicine generally chosen as career paths by graduates differ as well.

An increasing number of medical schools will consider requests from successful applicants for a one-year deferral of their matriculation. The reason for the deferral should be described in the request.

State and Regional Residence Policies

The residence restrictions noted in the individual entries in chapters 10 and 12 are generally not subject to change or at the discretion of admission committees. State-supported medical schools are required to give preference to state residents; some state-supported schools consider nonresidents only under the Early Decision Program discussed in Chapter 5. Some schools have quotas for counties or regions of the state. State residents pay a substantially lower tuition in publicly supported schools. In addition, there are private schools that give significant preference to residents of the state in which the schools are located, because the schools receive financial support from their state governments. Some states which have no medical schools within their boundaries participate in special interstate and regional agreements. These and similar arrangements are described later in this section.

Table 3-B shows the number of applicants, new entrants, and total enrollment for each medical school. Within each of these categories, percentages of in-state residents and women are also provided. For applicants and new entrants the in-state figure represents the percentage of individuals in that category who claim as their legal residence the state in which the medical school is located. (For example, of the 986 applicants to the University of Alabama, 34.2 percent were Alabama residents; and of the 160 new entrants, 85.6 percent were Alabama residents.) The total enrollment figure reflects total enrollment without regard to residency. Schools' practices regarding acceptance of in-state resi-

(Text continued on paged 26.)

AAMC Position on Equal Opportunity

The Association strongly reaffirms the principle of equal opportunity for individuals who are qualified for education and training in, and the practice of, the health professions, without regard to sex, race, creed, color, national origin, age, or handicap. In pursuit of this principle and policy, the AAMC:

1. Requests member institutions to continue to monitor their admission policies and practices to insure equal opportunity of admission to their educational and training programs.

2. Requests member institutions to continue to undertake and to reinforce programs of affirmative action to increase the numbers and proportions of students in the health professions from groups which are presently underrepresented in those professions.

Further, recognizing that the underrepresentation of some groups in health professions educational and training programs is but a symptom of broad social and economic problems, the AAMC:

1. Actively supports the organized study of the basic causes of underrepresentation and possible cures.

2. Actively supports the initiation of new programs, and the broadening of existing programs, which are designed to overcome these problems. These programs include, but are not limited to, those designed to permit women to fulfill their educational-professional goals and their cultural roles without sacrifice to either, programs designed to eliminate economic barriers to education in the health professions, and programs designed to develop increased interest in careers in the health professions on the part of members of underrepresented groups at the secondary school and college levels.

Table 3-B

U.S. Medical School Applicants, New Entrants, and Total Enrollment by Residence and Sex, 1989–90

	Applicants			New Entrants			Total Enrollment	
Medical School*	Total	Percent In-State	Percent Women	Total	Percent In-State	Percent Women	Total	Percent Women
Alabama	986	34.2	33.2	160	85.6	25.0	663	27.9
Alabama, South	614	46.4	32.7	67	86.6	41.8	257	40.1
Albany	3,905	40.8	36.8	122	67.2	35.2	516	33.5
Albert Einstein	3,872	38.7	39.5	176	64.8	37.5	713	41.8
Arizona	520	44.0	37.9	84	96.4	51.2	352	44.0
Arkansas	438	55.9	34.9	140	92.1	33.6	539	28.2
Baylor	1,583	52.9	38.5	168	67.9	36.3	652	37.3
Boston	4,978	9.6	41.8	135	34.8	47.4	605	42.0
Bowman Gray	2,683	14.1	35.8	108	57.4	35.2	430	32.1
Brown	110	32.7	40.0	65	32.3	43.1	289	43.6
California, Southern	3,020	73.0	37.0	136	91.9	39.7	602	32.6
California, University of								
Davis	2,956	84.2	40.1	93	95.7	35.5	405	39.8
Irvine	2,931	86.7	39.7	92	100.0	40.2	385	38.7
Los Angeles (UCLA) (and Drew program)	5,083	63.8	39.0	173	90.8	38.2	711	42.3
San Diego	3,621	70.8	38.8	122	92.6	35.2	529	33.1
San Francisco (and Berkeley program)	3,726	56.1	38.4	153	79.7	41.8	629	44.5
Caribe	468	53.2	36.5	60	96.7	46.7	243	37.9
Case Western Reserve	4,183	17.6	39.7	138	60.9	49.3	569	45.0
Chicago Medical	4,192	14.0	34.9	152	14.5	28.9	650	32.0
Chicago–Pritzker	4,093	16.3	34.9	101	41.6	30.7	430	31.9
Cincinnati	2,780	31.3	37.2	150	81.3	40.0	626	38.3
Colorado	835	37.6	38.8	127	89.8	40.2	518	41.1
Columbia	2,082	35.7	40.4	148	37.2	32.4	592	37.8
Connecticut	1,596	18.9	40.4	78	89.7	48.7	339	47.5
Cornell	4,394	29.2	39.0	101	49.5	41.6	391	38.6
Creighton	3,548	4.0	33.3	110	17.3	32.7	463	27.6
Dartmouth	3,046	1.6	39.2	84	7.1	40.5	310	48.7

Table 3-B (Continued)

U.S. Medical School Applicants, New Entrants, and Total Enrollment by Residence and Sex, 1989–90

	Applicants			New Entrants			Total Enrollment	
Medical School*	Total	Percent In-State	Percent Women	Total	Percent In-State	Percent Women	Total	Percent Women
Duke	4,547	6.4	35.3	103	22.3	29.1	437	30.9
East Carolina	1,161	37.0	38.9	72	97.2	48.6	283	37.8
Emory	2,868	10.3	37.9	112	49.1	34.8	430	33.7
Florida (and FSU/FAMU/UWF program)	1,563	44.7	38.1	113	93.8	48.7	458	41.3
Florida, South	562	93.4	38.3	94	98.9	36.2	377	31.8
George Washington	5,178	0.8	38.8	152	4.6	44.7	615	40.3
Georgetown	5,062	0.9	37.9	196	5.6	34.2	808	32.2
Georgia, Medical College of	746	62.7	38.9	179	96.1	32.4	721	30.8
Hahnemann	5,055	17.6	40.0	175	40.0	43.0	692	36.1
Harvard	2,336	9.1	37.7	170	8.2	43.0	665	39.1
Hawaii	503	21.7	37.6	52	84.6	34.6	236	33.9
Howard	2,843	1.7	45.3	90	5.6	51.1	363	51.8
Illinois, Southern	866	78.3	36.1	72	98.6	34.7	278	35.6
Illinois, University of	3,138	37.3	37.1	300	91.0	31.0	1,293	32.3
Indiana	1,307	30.2	35.2	265	87.1	33.6	1,053	31.1
Iowa	1,089	23.1	38.2	171	86.6	35.1	700	33.4
Jefferson	4,313	22.2	38.5	224	52.0	32.6	876	34.0
Johns Hopkins	2,643	9.4	40.9	119	15.1	40.3	448	39.5
Kansas	1,116	21.2	33.5	178	74.7	36.0	707	31.0
Kentucky	794	36.3	35.6	91	90.1	33.0	355	32.4
Loma Linda	2,200	56.9	35.9	129	59.7	33.3	570	31.2
Louisiana State—New Orleans	648	67.4	34.7	172	100.0	37.2	679	30.8
Louisiana State—Shreveport	507	76.5	33.9	100	99.0	33.0	380	29.2
Louisville	742	44.9	36.3	124	92.8	39.5	486	36.8
Loyola-Stritch	3,647	24.1	37.3	130	50.0	41.5	505	39.4
Marshall	592	21.3	34.1	48	81.3	35.4	187	37.4
Maryland	2,405	24.9	42.0	142	83.1	43.7	607	38.2
Massachusetts	988	60.1	42.9	100	100.0	43.0	418	45.2
Mayo	1,293	20.1	38.5	41	48.8	46.3	156	41.7

Table 3-B (Continued)

U.S. Medical School Applicants, New Entrants, and Total Enrollment by Residence and Sex, 1989–90

	Applicants			New Entrants			Total Enrollment	
Medical School*	Total	Percent In-State	Percent Women	Total	Percent In-State	Percent Women	Total	Percent Women
Meharry	2,143	5.4	42.6	80	17.5	47.5	315	46.7
Mercer	525	55.4	40.6	42	100.0	47.6	152	39.5
Miami	704	73.2	38.5	125	94.4	29.6	588	34.5
Michigan State	1,686	40.9	42.9	104	81.7	46.2	460	49.8
Michigan, University of	3,043	21.6	37.5	205	73.7	41.5	802	34.4
Minnesota—Duluth†	361	70.6	42.4	48	97.9	41.7	98	51.0
Minnesota—Minneapolis	1,409	28.9	38.1	179	77.1	46.4	883	38.7
Mississippi	363	57.0	31.1	101	100.0	25.7	390	25.4
Missouri—Columbia	615	36.8	35.6	108	85.2	35.2	420	34.5
Missouri—Kansas City	97	74.2	54.6	96	74.0	55.2	367	50.1
Morehouse	1,250	13.5	45.7	32	62.5	53.1	145	48.3
Mount Sinai	3,068	45.4	40.7	114	74.6	50.0	500	45.2
Nebraska	765	26.4	36.5	112	91.1	47.3	481	37.6
Nevada	419	18.9	35.1	46	71.7	41.3	194	37.6
New Jersey:								
UMDNJ-New Jersey Medical	1,893	43.7	42.6	170	91.8	43.5	694	35.2
UMDNJ-Robert Wood Johnson	1,742	47.4	42.4	131	86.3	35.1	544	34.7
New Mexico	570	25.8	39.7	73	94.5	42.5	293	42.0
New York Medical	4,330	35.6	38.8	178	70.8	34.8	763	38.7
New York University	2,352	45.1	38.5	131	72.5	35.1	584	34.8
New York:								
SUNY—Brooklyn	2,525	71.2	40.0	202	92.6	32.7	878	35.2
SUNY—Buffalo	2,218	80.0	38.5	137	97.8	38.0	568	41.5
SUNY—Stony Brook	2,501	77.7	40.5	100	98.0	39.0	405	38.8
SUNY—Syracuse	2,373	77.3	39.7	146	95.2	36.3	593	36.3
North Carolina	2,136	24.6	40.7	160	88.1	38.1	645	40.6
North Dakota	111	61.3	41.4	50	82.0	34.0	211	34.1
Northwestern	4,492	16.4	37.9	167	34.7	38.3	672	37.5
Ohio, Medical College of	1,228	40.3	37.4	139	90.7	41.7	550	39.3
Ohio, Northeastern	569	72.2	35.3	92	94.6	48.9	403	41.7

Table 3-B (Continued)

U.S. Medical School Applicants, New Entrants, and Total Enrollment by Residence and Sex, 1989–90

	Applicants			New Entrants			Total Enrollment	
Medical School*	Total	Percent In-State	Percent Women	Total	Percent In-State	Percent Women	Total	Percent Women
Ohio State	2,019	43.4	36.1	218	86.7	35.3	921	35.3
Oklahoma	810	34.0	31.0	125	88.8	32.8	526	28.7
Oral Roberts§	651	5.7	26.9	45	17.8	40.0	149	30.2
Oregon	619	33.1	38.5	94	94.7	35.1	368	38.9
Pennsylvania, Medical College of	3,399	27.0	48.1	110	40.0	46.4	466	53.6
Pennsylvania State	1,996	45.9	40.1	93	73.1	34.4	348	35.9
Pennsylvania, University of	4,562	16.1	38.2	152	45.4	36.2	665	34.3
Pittsburgh	2,645	30.6	37.1	133	74.4	29.3	518	27.0
Ponce	446	55.2	37.4	53	88.7	32.1	202	34.7
Puerto Rico	272	91.9	43.0	93	95.7	40.9	456	39.5
Rochester	1,720	46.6	42.1	96	49.0	47.9	397	41.8
Rush	2,093	42.4	39.4	121	81.0	57.0	493	44.6
Saint Louis	3,260	5.4	32.9	142	18.3	28.2	576	25.0
South Carolina, Medical University of	1,192	22.4	36.8	129	90.7	27.9	565	31.9
South Carolina, University of	906	24.5	34.2	71	78.9	32.4	250	27.2
South Dakota	383	19.6	32.4	45	73.3	42.2	190	34.2
Stanford	4,007	40.3	36.5	85	42.4	38.8	454	33.7
Temple	3,524	28.9	40.3	174	71.3	47.7	703	38.7
Tennessee State, East	739	40.7	34.6	56	89.3	44.6	225	34.7
Tennessee, University of	462	70.6	34.4	150	92.7	31.3	599	29.5
Texas A&M	813	91.6	40.3	48	100.0	33.3	192	39.1
Texas Tech	820	97.1	35.9	96	97.9	29.2	393	29.0
Texas, University of								
Dallas (Southwestern)	2,038	77.3	37.5	195	86.7	35.4	791	33.6
Galveston	1,988	80.7	38.1	200	93.5	27.0	756	30.0
Houston	1,984	79.8	38.5	202	94.6	45.0	779	38.8
San Antonio	1,965	81.0	38.2	203	93.1	42.9	800	37.5
Tufts	4,688	9.6	40.2	158	23.4	49.4	621	39.6
Tulane	4,191	6.5	35.8	148	14.9	42.6	590	34.6
Uniformed Services University	1,863	‡	30.7	162	‡	29.0	667	21.4

Table 3-B (Continued)

U.S. Medical School Applicants, New Entrants, and Total Enrollment by Residence and Sex, 1989–90

	Applicants			New Entrants			Total Enrollment	
Medical School*	Total	Percent In-State	Percent Women	Total	Percent In-State	Percent Women	Total	Percent Women
Utah	484	41.9	24.0	99	81.8	20.2	398	17.1
Vanderbilt	2,990	5.9	36.4	96	14.6	29.2	375	27.2
Vermont	2,508	1.9	37.9	93	29.0	46.2	374	44.7
Virginia, Eastern	2,176	19.4	37.4	96	44.8	34.4	366	39.9
Virginia, Medical College of	2,157	23.2	40.9	169	71.6	34.3	662	34.6
Virginia, University of	2,467	19.4	38.2	139	69.8	35.3	551	37.2
Washington University (St. Louis)	3,540	3.7	34.4	118	11.0	28.8	535	27.7
Washington, University of	1,471	33.0**	37.5	165	97.6**	35.2	719	40.1
Wayne State	1,658	45.7	39.5	258	86.4	40.3	1,047	36.2
West Virginia	1,031	14.7	34.7	80	82.5	35.0	319	32.3
Wisconsin, Medical College of	2,700	12.2	35.7	199	54.3	45.7	771	36.8
Wisconsin, University of	1,163	27.9	38.0	143	91.6	37.1	610	37.0
Wright State	1,060	62.3	37.7	90	90.0	32.2	359	39.8
Yale	1,973	5.6	35.9	100	5.0	35.0	481	35.1
Total	26,915††	‡	39.2	15,867	‡	38.0	65,016	36.2

Source: Final Admission Action Report, Geographic Source of Entering Students, Geographic Source of Applicants, and 1989 Fall Enrollment Questionnaire.

*Italics indicate privately supported schools.

†Two-year school of basic medical sciences.

§Oral Roberts University School of Medicine closed during the 1989–90 school year.

‡Not applicable.

**In-state residents include residents of Alaska, Idaho, and Montana.

††These applicants submitted a total of 262,476 applications.

dents have been stable for the most part, and applicants can use these percentages as guides. Overall, 69.8 percent of 1989-90 first-year students entered schools within their own states; 87.8 percent of public school entrants and 43.9 percent of private school entrants were in-state residents. From this it is clear that applicants should recognize that their best chances for admission are at public or private medical schools within their own states. Selection by a public school in another state is highly improbable unless the nonresident candidate has exceptionally strong credentials.

In view of the relationship between geographic residence and chances for admission, applicants are strongly urged to clarify their official residency status, if it is uncertain, with the schools of their choice prior to making formal application. In most instances, the committee on admission will be responsible for official residency rulings regarding medical school applicants or will know what university office is responsible. University definitions of residency status may not always be identical with definitions of "legal residency" used for other purposes (for example, to determine liability for payment of state income taxes or voting registration).

The individual school entries in chapters 10 and 12 present nonresident statistics and note preference given to applicants on the basis of residence.

Three interstate agreements which provide special opportunities for residents of some states are:

WICHE. All accredited western medical schools except the University of Washington participate in the Western Interstate Commission for Higher Education (WICHE) Professional Student Exchange Program. After certification by their states, students from Alaska, Montana, and Wyoming can attend the participating schools and pay the in-state tuition at a public institution or a reduced tuition at a private school. The student's home state then pays a support fee to the receiving school. In order to qualify for WICHE certification, a student must be a legal resident of the sending state and meet its eligibility requirements. Receiving WICHE certification does not guarantee admission to a participating school, however. Students must also apply directly to the participating schools of their choice, where they are considered on the basis of that school's admission criteria. Because funds available to the sending states for payment of support fees are limited, it is also possible that some students cannot be supported by their home states as exchange students, even though they are otherwise qualified for the exchange program. Further information is available from:

Professional Student Exchange Program
Western Interstate Commission for
Higher Education
P.O. Drawer P
Boulder, Colorado 80301-9752

WAMI. In 1971 the WAMI Program was founded to meet the health needs of the states of Washington, Alaska, Montana, and Idaho. Under the supervision of the University of Washington School of Medicine, students from these northwest states take the first year of medical school at participating universities in their home states. Students spend their second year at the University of Washington School of Medicine. Clerkships are available for third- and fourth-year students in family medicine, internal medicine, pediatrics, obstetrics-gynecology, and psychiatry in communities in the four-state area. Through this program, students from Alaska, Idaho, and Montana are admitted to the University of Washington School of Medicine and pay in-state tuition and fees. By decentralizing medical education in this way, the University of Washington has been able to increase the number of students accepted from these states without medical schools and to help correct the uneven distribution of physicians between urban and rural communities. Additional information about the program is available from:

Director, WAMI Program
University of Washington (SC-64)
School of Medicine
Seattle, Washington 98195

Southern Regional Education Board Program. Certain students from the states of Alabama, Georgia, Maryland, North Carolina, Tennessee, and Virginia who are accepted at Meharry Medical College pay a reduced tuition under a program administered by the Southern Regional Education Board. Similar arrangements exist for a certain number of students from Alabama and Georgia who are accepted at Morehouse School of Medicine. Further information is available from:

Southern Regional Education Board
592 Tenth Street, N.W.
Atlanta, Georgia 30318-5790

Citizenship

Since the number of applicants from the United States alone has been approximately twice the number of places available, foreign applicants generally have not been encouraged to seek admission to U.S. medical schools. Another consideration, previously discussed, is that a majority of U.S. schools are required to give preference to applicants from their own states or regions. In 1989-90, 515 foreign students, exclusive of persons who have permanent resident visas, sought acceptance; the 150 who entered the first-year class comprised only 0.9 percent of the total entrants.

Prospective applicants from other countries should study carefully the application considerations and admission criteria discussed in this book since they apply equally to both U.S. and non-U.S. citizens. Successful applicants from other countries will ordinarily have completed one or more years of their undergraduate college work in the United States. Foreign applicants must be proficient in the English language, and medical schools may require proficiency certification either from the appropriate official agency in the applicant's own country or from the American undergraduate college the applicant has attended.

Foreign applicants should be prepared to present detailed plans for financing their medical education. Since some countries impose severe restrictions on the exportation of currency, applicants should investigate the accessibility of financial resources before applying. In no case should foreign applicants assume that financial aid will be available in the United States, because very few schools are able to offer financial aid to foreign students.

Age

Medical schools review applications without regard to candidates' chronological ages. Experience demonstrates, however, that the group with the highest acceptance rate is graduating college seniors. Although not applicable universally, there are several reasons why older candidates in general fare less well. In the aggregate, older candidates present weaker academic credentials than do recent college graduates. Many have been away from an academic institution for a number of years, and admission committees may question ability to keep up with the intense pace of medical school. In contrast, candidates who have been out of school for awhile may have gained experience which will be attractive to some medical schools. Because this is an area about which generalizations are hazardous, older candidates are urged to seek counsel from individual medical schools before applying.

The acceptance rate for and numbers of older applicants have increased slightly in recent years. The data for the 1989-90 entering class (Table 3-C) demonstrate that 41.9 percent of the 2,123 applicants who were 32 years or older were accepted; this represents 5.2 percent of the total number of accepted applicants.

Technical Standards

Medical school graduates must have the knowledge and skills to function in a broad variety of clinical situations and to render a wide spectrum of patient care.

Candidates for the M.D. degree must have somatic sensation and the functional use of the senses of vision and hearing. Candidates' diagnostic skills will also be lessened without the functional use of the senses of equilibrium, smell, and taste. Additionally, they must have sufficient exteroceptive sense (touch, pain, and temperature), sufficient proprioceptive sense (position, pressure, movement, stereognosis, and vibratory), and sufficient motor function to permit them to carry out the activities described in the box on page 25. They must be able consistently, quickly, and accurately to integrate all information received by whatever sense(s) employed, and they must have the intellectual ability to learn, integrate, analyze, and synthesize data.

In 1988, a report by the AAMC Committee on AIDS and the Academic Medical Center was accepted by the Executive Council and approved for widespread distribution. Among the 17 recommendations contained in the report, three are particularly germane

Technical Standards for Medical School Admission*

A candidate for the M.D. degree must have abilities and skills of five varieties, including observation; communication; motor; conceptual, integrative, and quantitative; and behavioral and social. Technological compensation can be made for some handicaps in certain of these areas, but a candidate should be able to perform in a reasonably independent manner. The use of a trained intermediary means that a candidate's judgment must be mediated by someone else's power of selection and observation.

I. **Observation:** The candidate must be able to observe demonstrations and experiments in the basic sciences, including but not limited to physiologic and pharmacologic demonstrations in animals, microbiologic cultures, and microscopic studies of microorganisms and tissues in normal and pathologic states. A candidate must be able to observe a patient accurately at a distance and close at hand. Observation necessitates the functional use of the sense of vision and somatic sensation. It is enhanced by the functional use of the sense of smell.

II. **Communication:** A candidate should be able to speak, to hear, and to observe patients in order the elicit information, describe changes in mood, activity, and posture, and perceive nonverbal communications. A candidate must be able to communicate effectively and sensitively with patients. Communication includes not only speech but reading and writing. The candidate must be able to communicate effectively and efficiently in oral and written form with all members of the health care team.

III. **Motor:** Candidates should have sufficient motor function to elicit information from patients by palpation, auscultation, percussion, and other diagnostic maneuvers. A candidate should be able to do basic laboratory tests (urinalysis, CBC, etc.), carry out diagnostic procedures (proctoscopy, paracentesis, etc.), and read EKGs and x-rays. A candidate should be able to execute motor movements reasonably required to provide general care and emergency treatment to patients. Examples of emergency treatment reasonably required of physicians are cardiopulmonary resuscitation, the administration of intravenous medication, the application of pressure to stop bleeding, the opening of obstructed airways, the suturing of simple wounds, and the performance of simple obstetrical maneuvers. Such actions require coordination of both gross and fine muscular movements, equilibrium, and functional use of the senses of touch and vision.

IV. **Intellectual-Conceptual, Integrative, and Quantitative Abilities:** These abilities include measurement, calculation, reasoning, analysis, and synthesis. Problem solving, **the** critical skill demanded of physicians, requires all of these intellectual abilities. In addition, the candidate should be able to comprehend three dimensional relationships and to understand the spatial relationships of structures.

V. **Behavioral and Social Attributes:** A candidate must possess the emotional health required for full utilization of his intellectual abilities, the exercise of good judgment, the prompt completion of all responsibilities attendant to the diagnosis and care of patients, and the development of mature, sensitive, and effective relationships with patients. Candidates must be able to tolerate physically taxing workloads and to function effectively under stress. They must be able to adapt to changing environments, to display flexibility, and to learn to function in the face of uncertainties inherent in the clinical problems of many patients. Compassion, integrity, concern for others, interpersonal skills, interest, and motivation are all personal qualities that are assessed during the admissions and education processes.

**Recommendations of the AAMC Special Advisory Panel on Technical Standards for Medical School Admission. Approved for transmittal to all medical schools by the AAMC Executive Council on January 18, 1979.*

to medical school applicants:

Institutions should inform medical school and residency program applicants of the relevance of acquiring HIV infection to their career goals. Institutions have a responsibility to assist applicants to medical school and residency programs in making informed career choices. Knowledge that one has been infected with HIV is particularly relevant to the decision to apply to medical school or to elect specialty training. HIV-infected applicants may wish to reconsider their career goals. First, they may wish to reconsider the election of a prolonged period of medical education, in light of the significant possibility that they will become disabled during training or early in their career. Second, they may wish to reconsider career choices in light of the infectious hazards of certain portions of medical education and practice. Third, they may wish to reconsider career choices in recognition of possible barriers to certain invasive clinical activities and fields of specialization within medicine that may be imposed because of possible nosocomial hazards to patients. Fourth, given the personal health and career uncertainties that confront them, they may wish to reconsider assuming the financial costs of medical education. Institutions should make special informational material about these issues generally available to all applicants.

Institutions should encourage medical school and residency program applicants who believe they are at risk of HIV infection to seek HIV testing and counseling prior to admission. As discussed above, the benefits of early diagnosis and the importance of preventing virus transmission support the value of HIV testing and counseling for those who may be at risk. Also, such information may be particularly relevant to the applicant's choice of a medical career.

In considering the admission of a medical school or residency program applicant known to be HIV-infected, institutions should determine whether they are qualified in terms of the technical standards established by the institution in compliance with Section 504 of the 1973 Vocational Rehabilitation Act. Determining whether the condition of being infected with HIV provides a basis for denying admission to medical school or residency training presents a complex problem for admission committees. Although symptomatic HIV-infected persons currently have a poor prognosis, a number of uncertainties remain concerning the natural history of infection and disease progression and the development of therapeutic options, especially for asymptomatic persons. Admission of an asymptomatic HIV-infected applicant could only be denied if the institution concluded, on the basis of sound medical and scientific evidence, that the applicant's infected status would prevent him or her from completing essential degree requirements and that no reasonable accommodation could be made that would enable the applicant to do so.

It is unlikely that a person with the debilitating symptoms that ensue from HIV infection would seek admission to medical school or residency training. In the event that such an individual were to apply, the applicant's limitations or impairments could be considered, as is the case with other medical and handicapping conditions. Evaluation for admission should focus on whether the individual in his or her current health state, with reasonable accommodations by the institution, possessed the functional abilities necessary for the successful completion of the medical education program. Admission might be denied on the basis of physical limitations that are consequent to progression of infection. The AAMC has issued guidelines for the development of technical standards by institutions to ensure that their admissions processes are in compliance with Section 504.

Special Information for Women

The AAMC works toward the removal of any barriers which stand in the way of women having successful careers in medicine. The marked increase in the number of women being accepted indicates that the medical schools are being successful in this area. Between 1970 and 1988, the number of women physicians grew 386.9 percent to comprise 16.4 percent of the U.S. physician population. Women's representation in the applicant pool has risen dramatically (Table 3-D). In 1970–71, 2,734 women and 22,253 men applied to medical school. The corresponding figures for 1989–90 were 10,546 and 16,369 (Table 3-E). While the number of men applying to medical school began falling after 1975, the number of women applicants continued to rise until 1985. The overall acceptance rate for

Table 3-C

Acceptance Rates of Applicants by Age and Sex, 1989–90 First-Year Class

Age*	All Applicants			Men			Women		
	Number	Percent	Percent Accepted	No. of Applicants	Percent	Percent Accepted	No. of Applicants	Percent	Percent Accepted
20 and under	651	2.4	80.3	346	2.1	82.9	305	2.9	77.4
21–23	15,341	57.0	70.4	9,457	57.8	72.3	5,884	55.8	67.4
24–27	6,416	23.8	55.5	4,003	24.5	55.5	2,413	22.9	55.4
28–31	2,384	8.9	50.4	1,422	8.7	49.6	962	9.1	51.5
32–34	1,008	3.7	45.4	546	3.3	45.6	462	4.4	45.2
35–37	598	2.2	41.5	342	2.1	39.5	256	2.4	44.1
38 and over	517	1.9	35.4	253	1.5	34.4	264	2.5	36.4
Total	26,915	100.0	63.1	16,369	100.0	64.3	10,546	100.0	61.2

*In 1989 the mean ages for these applicant groups were as follows: 24.4 (all applicants), 23.8 (applicants accepted), 24.4 (men applicants), 23.8 (men accepted), 24.6 (women applicants), 24.0 (women accepted).

women is slightly lower than that for men. However, acceptance rates vary by age. Table 3-C demonstrates that for the 1989–90 entering class, as for previous years, the acceptance rate of women 28 years and older is higher than that of men. Many of these women have acquired experience in another health career or in community service. Recent studies of the applicant pool also reveal regional differences. For instance, medical schools in the south and the central regions have proportionately fewer women applicants and students than those in the west and the northeast.

Table 3-D shows that the percent of women in the first-year class has been steadily increasing, from 33.9 percent in 1985–86 to 38.0 percent in 1989–90. Table 3-B shows the proportion of new entrants into each U.S. medical school who are women. Large school-to-school variations are apparent, from a low of 20.2 percent to a high of 57 percent. At 26 schools, women make up over 45 percent of new entrants. In recent years the proportion of underrepresented minorities who are women has been increasing; in 1989–90, 49.7 percent of those minorities accepted were women.

Women considering medicine as a career often have questions about the medical school environment, future career options, and combining a medical career with parenting responsibilities. Overall, women currently in medical school and practice report a very welcoming environment and as wide a choice of career

Table 3-D

Women Applicants and First-Year Women New Entrants to U.S. Medical Schools, 1985–86 Through 1989–90

First-Year Class	Total Applicants	Women Applicants		Total First-Year New Entrants*	First-Year Women New Entrants*	
		No.	% of Total Applicants		No.	% of Total First-Year New Entrants
1985–86	32,893	11,562	35.2	16,268	5,520	33.9
1986–87	31,323	11,267	36.0	16,103	5,574	34.6
1987–88	28,123	10,411	37.0	15,927	5,767	36.2
1988–89	26,721	10,264	38.4	15,969	5,878	36.8
1989–90	26,915	10,546	39.2	15,867	6,025	38.0

Source: Final Admission Action Summary Reports.
*First-year new entrants are students entering medical school for the first time.

Table 3-E

Comparative Acceptance Data for Men and Women Applicants, 1985–86 Through 1989–90

First-Year Class	No. of Applicants		No. Accepted		Percent Accepted	
	Men	Women	Men	Women	Men	Women
1985–86	21,331	11,562	11,370	5,858	53.3	50.7
1986–87	20,056	11,267	11,159	5,933	55.6	52.7
1987–88	17,712	10,411	10,822	6,205	61.1	59.6
1988–89	16,457	10,264	10,785	6,323	65.5	61.6
1989–90	16,369	10,546	10,522	6,453	64.3	61.2

Source: Final Admission Action Summary Reports.

options as men enjoy. Approximately two-thirds of practicing physicians have children, and medical students are increasingly likely to meet female residents and faculty members who are also mothers. For applicants with questions along these lines, student chapters of the American Medical Women's Association (AMWA), present at many of the medical schools, can be good resources. Some of the local AMWA chapters offer housing arrangements for women applicants interviewing at their institution. At schools without such chapters, the admission office may be able to provide names of local women physicians who could talk with applicants about their experiences in the practice of medicine.

Women students are finding more women faculty members at medical schools each year. Since 1968 the percentage of women faculty in U.S. medical schools has grown from 13.3 percent to 20.0 percent. Women are not yet proportionately represented in leadership positions in academic medicine. Three of the 126 medical school deans are women; at the associate dean level, about 11.2 percent are women; and 22.2 percent of assistant deans are women. Approximately 75 of the schools' clinical and basic science departments are chaired by women. The AAMC offers an annual Women in Medicine professional development seminar to junior faculty desiring to increase their leadership capabilities.

Most U.S. medical schools have designated an individual to serve as the women liaison officer to the AAMC and with others outside their medical centers on matters of special interest and concern to women in academic medicine. Information regarding the women liaison officer at any institution and data about women in medical education are available from:

Staff, Women Liaison Officers
Division of Institutional Planning
and Development
Association of American Medical Colleges
Suite 200
One Dupont Circle, N.W.
Washington, D.C. 20036

Resources for and References About Women in Medicine

Women with questions that pertain more to the practice of medicine than to medical education are encouraged to contact AMWA (801 North Fairfax Street, Alexandria, Virginia 22314; (703) 838-0500). As noted above, many medical schools have student AMWA chapters. Moreover, AMWA publishes the *Journal of the American Medical Women's Association,* which includes diverse articles of interest to women physicians and medical students.

The books and articles included in the following bibliography are also valuable resources on women's professional development in medicine.

1. American Medical Association's Department of Women in Medicine. *In the Marketplace: Work Patterns, Practice Characteristics and Incomes of Women Physicians.* 1987. Free. (American Medical Association, 535 North Dearborn Street, Chicago, Illinois 60610; (312) 645-4392)
2. American Medical Association's Department of Women in Medicine. *The Residency Interview: A Guide for Medical Students.* 1986. Free. (American Medical Association, 535 North Dearborn Street, Chicago, Illinois 60610; (312) 645-4392)
3. Arnold, R., et al. Taking Care of Patients—Does It Matter Whether the Physician is a Woman? *Western Journal of Medicine,* 149:729-733, December 1988.
4. Bickel, J. Women in Medical Education: A Status Report. *New England Journal of Medicine,* 319:1579-1584, December 1988.
5. Bickel, J. Maternity Leave Policies for Residents: An Overview of Issues and Problems. *Academic Medicine* 64:498-501, September 1989.
6. Bowman, M. A., and Gross, M. L. Overview of Research on Women in Medicine —Issues for Public Policymakers. *Public Health Reports*, 101:513-521, 1986.
7. Clark, E. J., and Rieker, P. P. Gender Differences in Relationships and Stress of Medical and Law Students. *Journal of Medical Education,* 61:32-40, 1986.
8. Dickstein, L. (Ed.). *Women Physicians in Leadership Roles.* 1986. $18.50 plus $4.00 postage and handling. (American Psychiatric Press, 1400 K Street, N.W., Washington, D.C. 20005; (202) 682-6265)

9. Eisenberg, C. Women as Physicians. *Journal of Medical Education,* 58:534–541, 1983.
10. Grant, L. The Gender Climate of Medical School: Perspectives of Women and Men Students. *Journal of the American Medical Women's Association,* 43:109–119, July/August 1988.
11. Jacobsen, S. J., and Rimm, A. A. Regional Differences in the Proportion of Women Among First-Year Medical Students in the United States. *Journal of Medical Education,* 61:911–913, 1986.
12. Kaplan, S. Motivations of Women Over 30 for Going to Medical School. *Journal of Medical Education,* 56:856–857, 1981.
13. Kroser, L. A. Women in Medicine. In *Future Practice Alternatives in Medicine.* D. B. Nash (Ed.). 1987. $23.90. (Igaku-Shoin, 1140 Avenue of the Americas, New York, New York 10036; 212/944-7540)
14. Morantz-Sanchez, R. *Sympathy & Science: Women Physicians in American Medicine.* 1985. $10.95 paperback, $24.95 hardcover. (Oxford University Press, 200 Madison Avenue, New York, New York 10016; 212/679-7300)
15. Sayres, M., et al. Pregnancy During Residency. *New England Journal of Medicine,* 314:418–423, 1986.
16. Stewart, D. E., and Robinson, G. E. Combining Motherhood with Psychiatric Training and Practice. *Canadian Journal of Psychiatry,* 30:28–32, 1985.

Information About Financial Aid and Special Programs

Because of the strong national movement encouraging women to pursue professional careers, a number of informational resources have been designed specifically for women. The following list of published resources was developed from a publication prepared by the Project on the Status and Education of Women (Association of American Colleges, 1818 R Street, N.W., Washington, D.C. 20009).

1. American Fellowships, American Association of University Women (AAUW) Educational Foundation, 2401 Virginia Avenue, N.W., Washington, D.C. 20037; (202) 728-7603. Awarded to American women to conduct research or study in the final year at the following levels: dissertation, postdoctoral, and selected professions (including medicine and osteopathic medicine). Request announcement flier and applications from July through November only. Applications must be postmarked for dissertation/postdoctoral by November 15 and for selected professions by December 15.
2. American Medical Women's Association, Medical Education Loan Program, 801 North Fairfax Street, Alexandria, Virginia 22314. Provides assistance to women in their first, second, or third year of medical school. Applicants must be U.S. citizens attending a U.S. institution full-time and be student members of AMWA.
3. Business and Professional Women's Foundation Scholarship Program, 2012 Massachusetts Avenue, N.W., Washington, D.C. 20036. This needs-based program assists women 30 and older to seek the education necessary for entry into or advancement within the work force. Applicants must be U.S. citizens and be within 24 months of completing an accredited program at a U.S. institution. Applications are only available from October 1 to April 1. The deadline is April 15.
4. *Better Late Than Never: Financial Aid for Re-Entry Women Seeking Education and Training.* 1987. $8.00 (individuals—must send personal check)/$12.00 (institutions—prepaid). (Women's Equity Action League, Suite 305, 1250 Eye Street, N.W., Washington, D.C. 20005) Directory of more than 50 sources of financial aid for re-entry women, women updating their credentials, and those changing careers.
5. Doss, M. M. (Ed.). *The Directory of Special Opportunities for Women.* 1981. $19.00/$18.00 prepaid. (Garrett Park Press, P.O. Box 190, Garrett Park, Maryland 20896) A national guide for educational opportunities, career information, networks, and peer counseling assistance for entry or re-entry into the work force. The directory lists over 1,000 national, state, local, and private organizations, associations, programs, and agencies where women can find educational and career opportunities.
6. *Financial Aid for Minorities in Health*

Fields. 1987. $4.00. ISBN 0-912048-53-0. (Garrett Park Press, P.O. Box 190, Garrett Park, Maryland 20896)

7. Schlachter, G. A. *Directory of Financial Aids for Women* (5th Edition). 1989–90 (revised biennially). $42.50. (Reference Service Press, 1100 Industrial Road, Suite 9, San Carlos, California 94070.) A list of over 2,000 scholarships, fellowships, loans, grants, internships, awards, and prizes available to women. Also includes a list of state sources of educational benefits and a bibliography of financial aid directories.

Information about other sources of medical student financing is presented in Chapter 6.

Marital Status

Medical school admission decisions are made without regard to marital status. Individuals who are married and are accepted into medical school need to be prepared for major adjustments because of the demands of the course of study. Therefore, couples are well advised to explore carefully the possible ramifications of such a career decision on their relationship.

Minority Status

Efforts continue to be made to encourage better representation in medical schools of students from racial/ethnic groups underrepresented in medicine and students from nontraditional or economically disadvantaged backgrounds. Such efforts include programs directed toward the adequate preparation of the prospective minority medical school applicant; recruitment and retention programs; programs that offer funds for scholarships to minority undergraduate and medical students; establishment of more direct relationships between the medical schools and the predominantly minority colleges; and special projects, such as summer study programs, for minority undergraduate students.

Table 3-F

Application and Acceptance Rate of Selected Minority Group Applicants to First-Year Classes in U.S. Medical Schools, 1985–86 Through 1989–90

	Black American				American Indian			
	Applicants		Acceptees		Applicants		Acceptees	
First-Year Class	No.	% of All Applicants	No.	% Accepted	No.	% of All Applicants	No.	% Accepted
1985–86	2,428	7.4	993	40.9	125	0.4	55	44.0
1986–87	2,388	7.6	1,058	44.3	121	0.4	60	49.6
1987–88	2,203	7.8	1,070	48.6	123	0.4	64	52.0
1988–89	2,160	8.1	1,077	49.9	114	0.4	70	61.4
1989–90	2,216	8.2	1,104	49.8	136	0.5	84	61.8

	Mexican American				Mainland Puerto Rican			
	Applicants		Acceptees		Applicants		Acceptees	
First-Year Class	No.	% of All Applicants	No.	% Accepted	No.	% of All Applicants	No.	% Accepted
1985–86	518	1.6	295	56.9	250	0.8	137	54.8
1986–87	507	1.6	293	57.8	187	0.6	101	54.0
1987–88	466	1.7	291	62.4	196	0.7	121	61.7
1988–89	435	1.6	267	61.4	187	0.7	117	62.6
1989–90	497	1.8	307	61.8	200	0.7	132	66.0

Source: Final Admission Action Summary Reports.

Table 3-G

U.S. Medical School Enrollments, 1989–90

	First-Year New Entrants*		Total Enrollments	
Racial/Ethnic Category	Total	Percent of Grand Total	Total	Percent of Grand Total
U.S. Citizens				
White	11,581	73.0	48,961	75.3
Underrepresented Minorities				
Black	1,009	6.4	4,145	6.4
American Indian or Alaskan Native	73	0.5	258	0.4
Mexican American/Chicano	275	1.7	1,087	1.7
Puerto Rican (Mainland)	123	0.8	452	0.7
Subtotal	1,480	9.3	5,942	9.1
Other U.S. Students				
Asian or Pacific Islander	2,144	13.5	7,489	11.5
Puerto Rican (Commonwealth)	182	1.1	817	1.3
Other Hispanic	293	1.8	1,181	1.8
Subtotal	2,619	16.5	9,562	14.7
Foreign Students				
Black	47	0.3	139	0.2
Other	103	0.6	412	0.6
Subtotal	150	0.9	551	0.8
Unidentified	37	†	75	0.1
Grand Total	15,867	100.0	65,016	100.0

Source: 1989 Fall Enrollment Questionnaire. Reflects enrollments as of October 18, 1989, at 127 U.S. medical schools.

*First-year new entrants are students entering medical school for the first time.

†Not applicable.

Table 3-F shows the national application and acceptance rate for underrepresented minorities from 1985–86 through 1989–90. Table 3-G shows first-year new entrants and total enrollments, by racial/ethnic categories, for 1989–90. Chapter 7 provides more detailed information and a list of information sources for minority group students.

Foreign Medical Schools

Some U.S. students enter foreign medical schools each year. Unfortunately, many of them do not consider fully in advance the problems they will encounter if they attempt to practice medicine in the United States. These and other considerations about foreign medical schools are sufficiently important that they are discussed in detail in Chapter 8.

Chapter 4

MCAT and AMCAS

This chapter provides information on the Medical College Admission Test (MCAT) and the American Medical College Application Service (AMCAS). Details concerning application and selection procedures are presented in Chapter 5.

Medical College Admission Test (MCAT)

The Medical College Admission Test (MCAT) is a standardized, multiple-choice examination designed to assess understanding of science concepts and principles identified as prerequisite to the study of medicine. It also evaluates basic analytical ability in the context of medically relevant problems and data. The MCAT is designed to help admission committees predict which of their applicants will perform adequately in the medical school curriculum. It provides these committees with a standardized measure of academic performance for all examinees under equivalent conditions. The battery is developed by medical school admission officers, premedical instructors, medical educators, practicing physicians, the Association of American Medical Colleges (AAMC), and a group of testing experts under contract to the AAMC.

The MCAT is constructed to test material covered in first-year, introductory undergraduate courses in general biology, general chemistry, organic chemistry, and general, noncalculus physics. Six scores are reported, each presented on a scale ranging from 1 (lowest) to 15 (highest). They are: Biology Knowledge, Chemistry Knowledge, Physics Knowledge, Science Problems, Skills Analysis: Reading, and Skills Analysis: Quantitative. Information about the specific content of the examination, its organization, and scoring scheme appears in the *MCAT Student Manual.*

Essay

The MCAT currently includes an essay section. The essay test is being administered on a pilot basis. Essay topics are designed to provide examinees with an opportunity to demonstrate their writing and analytical skills. Essays are scored on a 6-point holistic scale by two readers. The two ratings are summed to yield a total score ranging from 2 to 12. Examinees receive 60 minutes for the writing of two essays at the beginning of the afternoon session.

Essays written by examinees during 1985 and 1986 were not released for use in admission decisions. Essays written by examinees in 1987 were released for use in decisions for the 1988 entering class to schools of medicine participating in the MCAT Essay Pilot Project. Essays for 1990 examinees may be similarly used. Detailed information about the essay is available in the MCAT registration materials and from undergraduate health professions advisers.

The 1991 MCAT

An intensive review of the content and format of the MCAT has been completed. An MCAT Evaluation Panel comprised of medical school faculty, students, deans, practicing physicians, and undergraduate advisors was created to conduct the review. Results suggested the need for extensive revision to the MCAT to better address changes in medical education and medical practice.

Beginning in the spring of 1991, a substantially different MCAT will be administered. Like the current test, the goal of the updated MCAT will be to help admission committees predict which of their applicants will be successful in medical school. The new test will be designed to encourage students interested in medicine to pursue broad undergraduate study in the natural and social sciences and in the humanities.

Because the current and future MCATs address differing skills, scores on the two exams will not be interchangeable. Medical schools will be asked to use the new test to select their 1992 entering classes. The current MCAT will not be administered after September 1990. Individuals planning to apply to medical school in 1992 and later are encouraged to take the new test.

College and university bookstores will receive a new *MCAT Student Manual* in September 1990. The manual will include detailed descriptions of the content and cognitive skills assessed and a full-length practice test with a scoring key.

The following table illustrates the differences between the current and 1991 MCATs.

Test Dates and Registration

The MCAT is administered twice a year—on a Saturday in the spring and fall. It is

Current MCAT	1991 MCAT
Total testing time: 7 hours	*Total testing time: 5-3/4 hours*
Skills Analysis: Reading • Assesses comprehension and evaluation of information presented in a narrative format. • Subject matter is drawn from social science, health or medically-related fields, biological, chemical, or physical sciences.	*Verbal Reasoning* • Assesses students' abilities to comprehend, reason, think critically. • Draws upon materials from the humanities, social sciences, natural sciences. • Subject matter knowledge will not be tested.
Science Knowledge *Science Problems* • Four scores are derived: Biology Knowledge Chemistry Knowledge Physics Knowledge Science Problems • *Science Knowledge* assesses basic knowledge in biology, chemistry, and physics. • *Science Problems* requires problem solving in biology, chemistry, and physics.	*Biological Sciences* *Physical Sciences* • Two scores will be reported, one for each science section. • Both sections consist entirely of science problems and may include data presented in graphs, tables, and charts. • Each section is designed to assess knowledge of basic concepts and facility with scientific problem solving. • *Physical Sciences* will cover physics and the physically-related chemistry areas. • *Biological Sciences* will cover biology and the biologically-related chemistry areas.
Writing Skills • Two 30-minute essays are included on a pilot basis, as discussed above. • Essays for 1990 examinees may be released to medical schools participating in the MCAT Pilot Project.	*Writing Skills* • Examinee demonstrates writing and analytical skills through completion of two 30-minute essays. • Scores will be released as a part of the regular MCAT score report beginning with the spring 1991 examination.

recommended that students take it about 18 months before they expect to enter medical school. Testing dates for the MCAT in 1990 are April 28 and September 15; testing dates in 1991 are April 27 and September 14. All students, especially those taking the test in the fall, should bear in mind that there is no provision for makeup examinations. Where possible, special Sunday testings are arranged for applicants presenting, in advance, satisfactory evidence that (1) their religious convictions prevent them from taking the examination on Saturday or (2) unavoidable conflicts prevent them from taking the examination on one of the regularly scheduled dates. An additional $5 fee is charged for these special testing arrangements. Only those persons who plan to apply to a school of allopathic, osteopathic, podiatric, and/or veterinary medicine will be permitted to take the MCAT without special permission.

Most schools prefer that the test be taken in the spring because of the short period of time between the availability of the fall test scores and application deadlines. Taking the spring test decreases the possibility that procedural problems will prevent the completion of an applicant's file and its timely review. Furthermore, in most cases, very little content that would be helpful to a student for the test is covered between the spring and the fall administrations, except for those students who complete introductory science courses during the intervening summer months. For these students, the fall testing date may be preferable.

The MCAT is administered and scored by the American College Testing Program at the direction of the AAMC. The examination fee is $105 for the 1990 administrations. A registration packet that contains an announcement, registration card, and all up-to-date information about the MCAT (including test dates, testing locations, distribution of scores, and deadlines) is available in February through premedical advisory offices and at major university testing centers. It may also be obtained by writing directly to:

MCAT Registration
The American College Testing Program
2255 North Dubuque Road
P.O. Box 414
Iowa City, Iowa 52243

It is essential that students apprise themselves of the information provided in this packet.

Payment of the examination fee will entitle the candidate to have test scores sent to six medical schools, provided the scores are released by the examinee at the time of the examination. Students need to direct these six free reports only to medical schools not participating in AMCAS, since AMCAS automatically provides official reports of MCAT scores released by the candidate to the participating schools to which the candidate applies.

Additional score reports to non-AMCAS destinations can be arranged by submitting the appropriate information and fees to the American College Testing Program. Further information is provided in the 1990 MCAT Announcement and is also available from:

MCAT Records
The American College Testing Program
P.O. Box 451
Iowa City, Iowa 52243

A score report in duplicate is sent to each examinee. MCAT examinees are encouraged to transmit one copy of this report to their premedical advisers or to request at the time the test is taken that their scores be sent, at no added cost, directly to their current premedical advisers. MCAT examinees may not cancel or delete their scores.

AAMC policy does not permit the waiver of fees for the MCAT or for additional score reports. This policy applies to all examinees.

Student Manual

In order to help students prepare for the MCAT, the AAMC publishes the *MCAT Student Manual.* The publication outlines science topics to be assessed in the Science Knowledge and Science Problems tests of the examination and describes the reasoning and decision-making skills to be tested in the Skills Analysis tests. The manual also describes types of materials upon which test questions are based and specific mathematics preparation needed by students. Suggestions for preparing to take the test are given, and a full-length practice test is included with the manual. The cost of the manual is $10.00 plus postage and handling (U.S. and Canada: $2.50 per book; foreign: $5.00 per book). Remittance (no cash) or institutional purchase order should be sent to:

Membership and Publication Orders
Association of American Medical Colleges
Suite 200
One Dupont Circle, N.W.
Washington, D.C. 20036

Use of Scores

In spring 1986 the AAMC and its Group on Student Affairs conducted a survey of medical school admission personnel on institutional admission practices and on the use of MCAT data in student selection. Survey responses revealed wide variation among schools in admission procedures and in the use of test data. Selected survey results follow.

Admission officers were asked to list the sources of information they consider in processing applications. Preadmission variables accorded high importance include: undergraduate grade-point average, quality of degree-granting undergraduate institution, letters of evaluation, medical school interview ratings, MCAT data, involvement in extracurricular activities, involvement in and quality of health-related work experience, and breadth and difficulty of undergraduate course work. Variables judged of medium importance include: involvement in and quality of graduate and postgraduate work, personal comments on AMCAS or supplemental application forms, status on selected demographic factors, and involvement in undergraduate research experience.

Admission officers were asked to divide the 15-point MCAT score scale into categories representing exemplary levels of performance, acceptable performance, and unacceptable performance. This task elicited a wide range of response. For example, some respondents considered 4 to be the lowest acceptable score at their institution. Others reported 10 to be the lowest acceptable score. Eight was the lowest reported exemplary score at some schools, while 13 was the bottom of the exemplary range at others.

Thirty-four percent of the admission officers reported considering the MCAT test scores individually and equally; 51 percent of the committees reported formally or informally weighting the MCAT content areas in ways relevant to their curricula. Fifty-two percent responded that MCAT scores are compared with applicants' transcripts and that the relation between individual MCAT scores and course enrollment/performance is evaluated. Ten percent of the admission officers said they consider the availability of special instruction at their institutions in relation to students' weaknesses in subject area preparation. Many relax MCAT requirements for special categories of applicants, for example, minority and/or disadvantaged applicants, Ph.D. candidates, and health professionals.

Retaking Test

If an applicant's MCAT scores are low, the advisability of retaking the test may be discussed with a premedical adviser. Legitimate reasons for retaking the test include: unusual discrepancy between college grades and MCAT scores; having taken the MCAT prematurely, that is, before completing the introductory science courses that provide the necessary background for the science areas of the test; serious illness at the time of the test; and recommendation by a member of a medical school admission committee that the test be retaken. Application procedures for retaking the test are identical to those for initial testing.

American Medical College Application Service (AMCAS)

The American Medical College Application Service (AMCAS) is a nonprofit centralized application processing service for applicants to participating U.S. medical schools. AMCAS was developed by admission officers of member institutions of the AAMC to facilitate the process of applying to U.S. medical schools.

AMCAS does not render any admission decisions and does not advise applicants where to submit applications. Each participating school is completely autonomous in reaching its admission decisions. AMCAS provides only the application processing service.

AMCAS benefits both the participating medical school and the applicant by collecting, processing, and coordinating data, effectively reducing the time and, in many cases, the expenses of the application procedure. The total operation neither alters nor depersonalizes the principles of traditional application procedures.

AMCAS assists the medical school admission offices by transmitting complete application materials for each applicant and providing useful rosters and statistical reports. A list of accepted applicants is forwarded to all medical schools each month beginning in April and continuing through October of each entering year. This list shares the name and identification number of each applicant holding an acceptance and the schools where those acceptances are being held. In addition, AMCAS enables the AAMC to initiate national research projects regarding the medical school admission process.

All students applying to AMCAS-participating schools must submit application materials to these medical schools through AMCAS. Applicants applying for advanced standing or as transfer students are not processed through AMCAS. All advanced standing applicants and transfer students should contact the medical schools directly for instructions. Applicants applying to medical schools not participating in AMCAS must contact those schools directly for application instructions.

Applicants to AMCAS-participating schools submit only one set of application materials and official transcripts, regardless of the number of schools to which they apply. Application materials may be obtained from premedical advisers. Materials also may be obtained directly from AMCAS by submitting an application request label, available from AMCAS-participating schools and premedical advisers, or by writing directly to:

AMCAS
Section for Student Services
Association of American Medical Colleges
Suite 301
1776 Massachusetts Avenue, N.W.
Washington, D.C. 20036-1989
Telephone: (202) 828-0600

Completed application materials are forwarded directly to AMCAS by the applicant. *The earliest date applicants may submit their completed application materials to AMCAS is June 15. Applications received prior to June 15 will be returned.* The latest date for filing an application to an AMCAS-participating school refers to the deadline for receipt of all correct and complete application materials by AMCAS. Application materials received after the deadline listed for an AMCAS-participating school cannot be processed. (See Chapter 10 for individual school deadlines.)

Before submitting application materials, the applicant should request that a complete set of official transcripts be forwarded directly to AMCAS by the registrar of each U.S., U.S. territorial, or Canadian college, university, junior college, or graduate school attended. AMCAS begins accepting official transcripts on March 15. Except for the Early Decision Program, all official transcripts must be received no later than two weeks following the deadline for application materials. Official transcripts in support of application materials submitted for participation in the Early Decision Program must be received at AMCAS no later than August 1. Official transcripts are not required for work taken the previous term; for example, if an application is submitted to AMCAS before September 1, the official transcripts for the previous spring are not required. AMCAS does not require transcripts from institutions located outside the United States, its territories, and Canada, although these may be requested at a later date by the individual schools participating in AMCAS. Transcripts sent in support of applications filed in previous years cannot be reactivated or updated and will not be used.

Refer to the *AMCAS Instruction Booklet* enclosed with the AMCAS application materials for complete requirements and instructions. *The processing of an applicant's materials is contingent upon the receipt by AMCAS of both the application materials and all required official transcripts within the established time limits.* Upon receiving both, AMCAS verifies the applicant's academic record against the official transcripts in order to ensure accuracy. After verification, grade-point average and credit hour totals are computed, and other data are collected from the application materials and forwarded to the schools, along with a reproduced copy of the application form.

Upon receipt of the applicant's application materials from AMCAS, medical schools may notify the applicant directly of any additional fees, letters of evaluation, or other items of information that may be required. These items should be forwarded by the applicant directly to the medical schools only if requested.

A service fee is charged by AMCAS based on the number of participating schools to which the applicant applies. The graduated service fee schedule is found in the AMCAS application packet.

The AMCAS fee waiver program is provided by the AAMC for applicants whose inability to pay the AMCAS service fee would prevent them from applying to medical school.

For the 1989-90 entering class, 24,600 or 91.4 percent of all applicants applied to at least one AMCAS-participating school. One hundred seven medical schools will participate in AMCAS for receiving applications to their 1991-92 entering class. AMCAS participation is indicated in the individual school entries in Chapter 10.

Chapter 5

The Medical School Application and Selection Process

Each medical school faculty has the responsibility and authority to select the individuals who will be admitted to the school. The functional responsibility for the admission process is delegated to an admission officer who, with the assistance of an office staff, organizes and conducts the procedures for the receipt and processing of applications. Through this process, candidates' credentials are reviewed, and decisions to admit or reject a candidate are made. These decisions are ultimately the responsibility of a faculty committee. The composition of admission committees and the selection process vary from school to school, but each school follows the general principles discussed below.

Composition of Committees

Admission committees are principally composed of faculty members from both basic science and clinical departments. Frequently there are one or more medical student members. At a few schools, committees include faculty members from other colleges in the university and/or individuals from the community.

Processing of Applications

Applications are screened and placed in priority categories according to policies established by the faculty. Supplementary application materials may be requested from all applicants or from only those in specified categories.

Irregularity Procedures

Applicants are expected to provide complete and accurate information in medical college and/or AMCAS application materials and in registering for and taking the MCAT. If any falsification, omission, or discrepancy, including incomplete or invalid financial transactions, i.. any stage of this process is suspected by or reported to the Association of American Medical Colleges (AAMC) and a review confirms its existence, the applicant will be notified and asked to provide additional information and, where necessitated by the circumstances, an explanation. Thereafter, if it is determined that an irregularity has occurred, a report thereof will be issued to the admission officers of all U.S. and Canadian medical schools to which the applicant has applied during the current cycle, schools to which the applicant applies or matriculates in the future, and/or schools to which the applicant may request his or her MCAT scores be sent. Treatment of such situations is conducted by the AAMC according to written policies established by its Executive Council. These policies, though very seldom needed, exist to help to ensure the provision of complete, accurate information to medical school admission officers and the maintenance of high ethical standards in the medical school admission process. Insofar as the AAMC also provides services to educational institutions other than its members, these policies are applicable to any matter bearing on the admission process of such institutions of which the AAMC has knowledge.

Applicants in the highest priority are contacted by the admission office to arrange an interview appointment. As the process

Table 5

Trends Related to Medical School Applications for First-Year Entering Classes, 1985-86 Through 1989-90

Entering Year	Individuals Filing Applications	Applications Filed	Number of New Entrants*	Percent of Applicants Enrolled
1985-86	32,893	307,427	16,268	49
1986-87	31,323	295,744	16,103	51
1987-88	28,123	266,900	15,927	57
1988-89	26,721	258,442	15,969	60
1989-90	26,915	262,476	15,867	59

*New entrants are those students entering medical school for the very first time.

continues, applicants in successively lower categories are contacted.

The admission committee meets several times a month to interview applicants. Applicants are interviewed by one or more committee members, either sequentially or by several committee members together.

Interviewed applicants are informed of the committee's decision shortly after the interview—at some schools on the same day. The decision will be to offer an acceptance or reject the applicant or place the applicant on an alternate list.

As the process continues through the admission cycle, acceptances are offered until the requisite number of matriculants is achieved to fill all the positions in the entering class for that year.

Number in Entering Classes

Each medical school predetermines the number of students to be admitted each year. (An estimate of the expected size of the entering class is provided in each school entry in Chapter 10.) Since budgetary and other policies may modify the number to be admitted, these estimates are not firm. There were 15,867 new entrants in 1989 (Table 5).

Number of Applicants

Nationwide, there were 26,915 applicants for the 1989 entering class, a slight increase over the 26,721 applicants for the entering class of 1988. This provided an applicant to position ratio of 1.7:1. This ratio historically has hovered around 2:1. In the mid-1970s the ratio reached 2.9:1. It is anticipated that the trend toward a declining applicant pool experienced over the last few years has leveled and the number of applicants may remain fairly constant or reflect modest increases. It is estimated that there will be approximately 28,000 applicants for the entering class of 1990, and the ratio of applicants to entering students will remain at a level of 1.7:1.

Proportion of Applicants Accepted

Overall, 63.1 percent of the candidates applying in 1989 were accepted. This is a slight increase from 1988. Among first-time applicants, who numbered 21,490, the acceptance rate was 65.1 percent. Those candidates who had applied for the second time after not being admitted in 1988 had a 52.3 percent acceptance rate. *These data on positions, applicants, and acceptance rates demonstrate that the competition for entry into medical school continues to decrease.*

Timing of Applications

It is important to submit the application as early as feasible in the admission cycle. For the 107 schools participating in the American Medical College Application Service (AMCAS), applications received on or after June 15 will be processed and forwarded to the schools designated by each applicant. Applications received prior to June 15 will be returned to the applicant. The 19 schools not participating in AMCAS have varying dates for the earliest receipt of applications (see school entries in Chapter 10).

All schools (whether using or not using AMCAS) determine the latest date that they will accept an application. For AMCAS-participating schools, the deadline date shown in the school's Chapter 10 entry is the date when the application must be received by AMCAS.

Early Decision Program (EDP)

In 1989, 84 medical schools participated in the Early Decision Program (EDP), in which applicants file an application only to the one school from which they desire an early decision. EDP applications are accepted by participating schools from mid-June through mid-August (see school entries in Chapter 10 for specific dates), and applicants will be notified about the school's decision prior to October 1. When applying to one medical school as an early decision candidate, the applicant must not apply to any other school prior to being informed of the school's decision; if the applicant is offered admission, the applicant must accept the offer. EDP candidates who violate these terms are considered to have committed an irregularity, and other schools to which they apply are informed. If an applicant is not accepted by the one school, the applicant is free to apply to other schools after being informed of the rejection. For a well qualified candidate who has a preference for a particular school, the EDP is an advantage. If not successful, the applicant has sufficient time to apply to other AMCAS and non-AMCAS schools.

Number of Applications

Early Decision Program applicants, if they are accepted, file only one application. In 1989 there were 1,397 EDP candidates, and 982 (70.3 percent) were accepted. An additional 2,255 non-EDP candidates filed only one application to AMCAS-participating schools, and 57.3 percent were admitted. On the average, applicants apply to nine medical schools. In 1989 candidates who filed 7 to 19 applications were accepted at an average rate of 63 percent. Of those who applied to 20 or more schools, the acceptance rate averaged 61 percent. The number of applications an applicant should file depends upon personal preferences for a medical school and upon factors such as official state of residence. The considerations detailed in Chapter 3 should be used as guides.

Selection Factors

Decisions to admit candidates are based upon multiple factors that are to a degree unique for each school. However, there are common factors that receive special scrutiny by every admission committee. These are: (1) evidence of an ability to accomplish the academic work necessary to progress through the school's curriculum and (2) evidence of possession of the personal qualities and attributes of physicians.

Academic Ability

An admission committee wants to select students who have acquired the knowledge and developed the study skills needed to learn what is necessary to progress through the curriculum of its school. To estimate this, committees rely on candidates' college records and on the scores achieved on the Medical College Admission Test (MCAT). College transcripts are carefully reviewed from the standpoint of the grades earned, the credit hours carried during successive academic periods, and the distribution of courses among the biological, physical, and social sciences and the humanities. Although each school sets its own scale of preferences, in general, candidates who have accomplished their college work on a normal schedule, who have a balanced distribution of credits among the sciences and humanities, and who have consistently earned grades in the 3.0 to 4.0 range are placed in a high priority category.

In analyzing candidates' transcripts, the characteristics of the colleges they have attended are also considered. Thus, work accomplished and grades earned at colleges known by admission committees to have rigorous standards will be accorded greater weight than those from colleges considered to have lesser standards. The acceptability of advanced placement (AP) credits earned in high school and College Level Examination Program (CLEP) credits awarded by colleges is the prerogative of each medical school. The individual school entries in Chapter 10 should be reviewed regarding their policies. If a school's policies for AP and CLEP credits are unclear, the school's admission office should be consulted.

Scores on the MCAT provide ancillary information on candidates' academic ability. The method by which the scores achieved on the six MCAT tests are factored into determining whether candidates can reasonably be expected to accomplish the academic work necessary to progress through a school's curriculum is established by each school. The range of acceptable MCAT scores varies among schools. In 1986 the Association of American Medical Colleges (AAMC) asked admission officers to designate the lowest MCAT scores deemed acceptable at their school and the lowest scores they placed in an exemplary category. At some schools scores of 4 were acceptable. At others, only scores of 10 or more were considered acceptable. The mean for the lowest acceptable scores was 7. At some schools, 8 was considered an exemplary score. At the other extreme, only scores of 13 or above were deemed exemplary. The mean for the highest exemplary scores was 11. The wide variation in medical schools' views of what are considered acceptable and exemplary MCAT scores indicates that the weight of the scores in selection decisions is quite variable.

In practice, MCAT scores are compared with candidates' college records. For example, significant discrepancies between the MCAT score on one of the science tests and grades earned in courses in that science are particularly noted. MCAT scores are given greater attention when evaluating the academic records of candidates from colleges that are unfamiliar to an admission committee. Comparing MCAT scores with grades earned provides an estimation of such candidates' academic accomplishments in relationship to candidates from colleges that are familiar to the committee.

In summary, academic ability is an important selection factor, but judgments of academic ability vary among schools. The above description of how academic ability is factored into selection decisions applies to candidates who have recently completed college. Assessments of the academic ability of older candidates will include the nature of the work in which they have been engaged since leaving college and their achievement in postbaccalaureate courses. The academic abilities of socioeconomically disadvantaged and underrepresented minority candidates require special assessments (see Chapter 7 and the AAMC publication, *Minority Student Opportunities in United States Medical Schools).*

Personal Qualities and Attributes

Candidates' personal qualities are important factors in selection decisions. Evidence of maturity, self-discipline, concern with helping others, and leadership is sought through information obtained from the personal statement on applications, evaluations by premedical advisers and college faculty members, and interviews.

In writing a personal statement, the applicant should record not only the reasons for desiring a career in medicine but also extracurricular and work accomplishments. The activities deemed particularly significant should be described clearly and succinctly.

All medical schools will ask the applicant to designate persons from whom letters of evaluation should be requested. Evaluations from premedical advisers and college faculty members who know the applicant are given much greater weight by admission committees than letters of recommendation from friends, family members, clergymen, or political figures. If the applicant has worked extensively during college or is applying several years after college, letters from employers and supervisors will be given weight. It is important for the applicant to inform those individuals from whom evaluations will be requested.

Policies regarding scheduling of interviews vary from school to school. Some will grant interviews to all candidates requesting one. Others invite candidates for an interview only after initial screening and priority categorization. In almost all cases, acceptances are offered only after candidates have been interviewed. Usually, the applicant will be asked to come to the school for the interview. Some schools have designated interviewers in various regions of the country to reduce the financial and time expenditures for candidates. Information about a school's interview policies and procedures is generally provided to candidates in the initial stage of the school's selection process. If these are not clear, the applicants should ask for clarification from the admission office. At the interview, the applicants should be prepared

AAMC Recommendations Concerning Medical School Acceptance Procedures for First-Year Entering Students

For the information of prospective medical students and their advisers, the recommended procedures for offering acceptance to medical school and for student responses to those offers are as follows:

1. Each school of medicine should prepare and distribute to applicants and college advisers a detailed schedule of its application and acceptance procedures and should adhere to this schedule unless it is publicly amended.

2. Each school of medicine should agree not to notify its applicants (except for those applying via Early Decision Program [EDP]) of acceptance prior to October 15 of each admission cycle.

3. By March 15 of the year of matriculation, each school of medicine should have issued a number of acceptances at least equal to the size of its first-year entering class.

4. Only after April 15 are schools free to apply appropriate rules for dealing with accepted applicants who, without adequate explanation, hold one or more places in other schools. These rules should recognize the problems of the applicant who has multiple offers and also of those applicants who have not yet been accepted.

5. By April 15 of the year of matriculation, an applicant who has received offers of admission from more than one school should choose the one school that he or she prefers and withdraw from all other schools to which he or she has been accepted.

*6. Prior to April 15 of the year of matriculation, an applicant should be given at least two weeks to reply to an offer of admission. After April 15, schools may require applicants to respond to acceptance offers in less than two weeks. An applicant may be required to file a statement of intent, or a deposit, or both. The statement of intent should provide freedom to withdraw if the applicant is later accepted by a school that he or she prefers.

*7. It is recommended that the acceptance deposit not exceed $100 and be refundable until May 15. After that date, a school may retain the deposit as a late withdrawal fee. If the applicant matriculates at the school, the school is encouraged to credit the deposit toward tuition.

8. Subsequent to June 1, a school of medicine seeking to admit an applicant already known to be accepted by another school for that entering class should advise that school of its intent. Because of the administrative problems involved in filling a place vacated just prior to the commencement of the academic year, schools should communicate fully with each other with respect to anticipated late roster changes in order to keep misunderstandings at a minimum.

9. After an applicant has enrolled in a U.S. school of medicine or begun a brief orientation program contiguous to enrollment, no further acceptances should be offered to that individual. Once enrolled in a school, students have an obligation to withdraw their applications promptly from all other schools. Enrollment is defined as being officially registered as a member of the first-year entering class at a school.

*Most of what is stated in these two procedures does not pertain to students accepted through the Early Decision Program (EDP) because such students agree in advance to attend a given medical school if offered a place during the "early decision" segment of the application year.

to discuss their personal histories and college records candidly.

Notification of Acceptance

In 1988, the constituent medical schools of the AAMC agreed to observe a new set of recommendations concerning medical school acceptance procedures for first-year entering students, commonly referred to as the "traffic rules." The recommendations for the 1991 entering class are noted on page 47. The purpose for these recommendations is to reduce the stress on applicants and also to permit the schools to complete their selection process prior to the summer months. In order for medical school admission committees to fully consider an application, the applicant must assume certain responsibilities in the application process. The observance of the responsibilities in the box below will ensure both applicants and admission committees of an orderly and timely process of student selection. Applicants who have made early applications and are deemed by a school to be in a high priority category will generally be notified early in the cycle. Lower priority candidates, if accepted, will be notified later. The earliest and latest dates for notification and the time allowed for the applicant's response to an acceptance are shown in each school's entry in Chapter 10. Some schools permit accepted students to defer their entrance for one or more years. Applicants desiring to defer entrance to medical school should request deferment no later than when responding to a school's offer of acceptance.

The AAMC and its Group on Student Affairs recommends that deposits required of accepted students not exceed $100 and that they be refundable until May 15. The amount of the deposit and the refund policy for each school are shown in the school entries in Chapter 10.

Candidates Offered Multiple Acceptances

In 1989, 48.6 percent of accepted candidates were accepted by two or more medical schools. To provide an orderly and fair admission process, candidates are obligated to hold no more than one acceptance at a time. An applicant receiving acceptances from two or more schools simultaneously is expected to accept the offer of the most preferred school and notify the others that their offers are not accepted. If subsequent offers are received from other schools, the applicant may withdraw from the school originally accepted and accept the offer of a more preferred school. The schools are expected not to offer acceptances to students who have already arrived at another medical school for orientation and matriculation.

Responsibilities of Medical School Applicants

- Applicants are expected to become familiar with and observe the application procedures at each school to which they apply. All application documents including primary and secondary application forms, transcript(s), letters of evaluation, fees, etc., must be submitted in a timely manner.
- Applicants must promptly notify AMCAS and medical schools not participating in AMCAS of any change of address.
- Applicants must respond promptly to all invitations for a medical school interview. In those instances when an applicant cannot appear for a previously scheduled interview, the applicant is responsible for promptly notifying the school of the cancellation of the appointment. The cancellation should be undertaken by telephone, followed by a letter.
- Applicants in need of financial aid must initiate the steps necessary to determine their eligibility as early as possible. This includes filing the appropriate need analysis forms in January or February and encouraging their parents (if required) to file their income tax forms early.
- Applicants who remain under consideration for admission should keep the medical schools informed of the address and telephone number where they can be reached. Applicants who are unavailable (e.g. foreign travel) should instruct and grant authority to a parent or other individual to act on their behalf.
- Applicants who have made a final decision on the medical school they plan to attend have the obligation to promptly withdraw their applications from all other schools.

Chapter 6

Financial Information for Medical Students

This chapter is designed to help individuals seeking to finance their medical education. It includes general information on financial planning and debt management, applying for financial aid, distribution of aid, and common sources of student funding. Medical school applicants needing to supplement their own resources to pay for the cost of a medical education should not feel intimidated by the profusion of financial aid programs, the amount of paperwork involved, or the variety of requirements. They should keep the following points in mind:

1. The primary responsibility for financing a medical education rests with the student and/or the student's family.
2. Borrowing is the most common form of assistance.
3. Applicants who are in default on federal educational loans or who owe refunds to federal grant programs are prohibited from obtaining additional support from a number of federal programs.
4. The amount of assistance available and how it is packaged (that is, awarded to students) differ from one medical school to another.
5. Funding and eligibility requirements for federal programs may change at any time.
6. The financial aid officer is responsible for coordinating all sources of financial assistance for each enrolled student.

Financial Planning

The cost of attaining a medical education has increased markedly in the last decade. Individual school entries in Chapter 10 provide information on the cost of attendance for the 1989–90 academic year. Table 6-A provides tuition and student fees for 1989–90 first-year medical students at U.S. medical schools. For the 1989 graduating class, the average indebtedness of all medical students with debt was $42,374. The primary source of financial aid is in the form of loans (78.6 percent), followed by scholarships (51.2 percent). For students who must depend extensively on loans to pay for medical school, two fundamental concepts are critical.

First, borrowing is defined as obligating future income. It is income yet to be earned that is obligated today for some benefit such as buying a car or a home or paying for tuition in order to acquire an M.D. degree. When that income is finally earned, the amount that has been obligated cannot be used for any purpose other than the repayment of the past debt.

The second concept is a corollary to the first. That is, an individual who decides to borrow to obtain an M.D. degree has also decided implicitly that the degree is equal in value to the amount of future income that has been obligated in order to attend medical school. Borrowing, therefore, has a direct effect on future professional and personal lifestyle. It is also an investment in one's own future. In deciding whether to pursue a medical education, the individual makes the choice of whether the return is worth the investment.

Even if a student must borrow, it is possible to acquire a sense of fiscal awareness and responsibility that will permit significant control over the amount of future income obligated. Following the guidelines described below—and these are guidelines that will serve a lifetime—has the twofold benefit of setting

Table 6-A

Tuition and Student Fees for 1989–90 First-Year Students at U.S. Medical Schools (In Dollars)

	Private Schools*			Public Schools		
Categories of Students	Range	Median	Average	Range	Median	Average
All students	9,498-26,950	17,794	17,783	-	-	-
Resident	-	-	-	1,524-10,092	5,810	5,935
Nonresident	-	-	-	7,032-33,640	13,020	14,089

NOTE: Figures based on data provided fall 1989. Data provided by 52 private and 73 public schools. Uniformed Services University of the Health Sciences, a public institution, does not charge tuition or student fees; books and equipment are also furnished without charge. Tuition and fees for the freshman medical year were used for Missouri—Kansas City, which has a six-year program.

*The following private medical schools reported a lower tuition for residents of the state: Baylor, Caribe, Loyola-Stritch, Mayo, Pennsylvania State, Pittsburgh, Ponce, Temple, Eastern Virginia, and Medical College of Wisconsin. The higher tuition for these schools was used for this table.

limits on the level of indebtedness while the student is in school and of successfully dealing with repayments after graduation.

Debt Management

Formulating a budget and living within its limits are essential. This means delaying gratification in terms of purchases and life-style decisions while the individual is enrolled in school. By doing so, it also means borrowing less and having more money in the future. In order to assist students, each medical school prepares a standard student budget. These budgets represent guidelines for creating an individual budget. It is possible to live on less than the amount budgeted by taking certain actions such as having roommates, sharing transportation, and preparing meals at home. Participating in seemingly small economies can literally free thousands of dollars of future income for purposes other than repaying educational debts.

Meeting Deadlines

Meeting deadlines for assistance is fundamental to receiving both sufficient funding and the least expensive funding while in school. The discipline associated with meeting deadlines also assures that loan deferment forms and loan payments are submitted according to schedule to the lenders. Students are urged to maintain personal calendars in which due dates for applications, deferment forms, and tuition payments can be recorded. Meeting all deadlines will prevent late fees on tuition bills and defaults on educational loans while enhancing a good credit rating.

Debt Reduction Methods

Limiting undergraduate borrowing, working (as long as academic standing is not jeopardized), and aggressively seeking private sources of assistance are very effective methods for reducing debt and increasing future disposable earnings. For more information on private organizations and agencies, such as medical societies, state programs, brotherhoods, sisterhoods, and church groups, applicants are urged to explore their college libraries, contact their state departments of education, and review the material offered by their medical school's financial aid office. Although the search for private assistance requires considerable effort, the prospect of meeting the cost of education and decreasing the level of indebtedness makes the effort worthwhile.

(Text continued on page 53.)

Table 6-B

Federal Loan Programs for Students

	Programs*				
Characteristic	HPSL	Perkins	Stafford	HEAL	SLS
Lender	Medical school financial aid office	Medical school financial aid office	Bank, state guarantee agency	Bank, state guarantee agency	Bank, state guarantee agency
Based on need	Yes	Yes	Yes	Yes	No
Citizenship requirement	U.S. citizen, U.S. national, or U.S. permanent resident	U.S. citizen, U.S. national, or U.S. permanent resident	U.S. citizen, U.S. national, or U.S. permanent resident	U.S. citizen, U.S national, or U.S. permanent resident	U.S. citizen, U.S. national, or U.S. permanent resident
Borrowing limits	Tuition plus $2,500 (general funds usually too limited for awards this size)	$18,000 aggregate undergraduate and graduate	$7,500/year; $54,750 aggregate undergraduate and graduate	$20,000/year; $80,000 aggregate	$4,000/year; $20,000 aggregate
Interest rate†	5 percent	5 percent	8 percent for the first 4 years of repayment and 10 percent after that	Variable or fixed, based on 91-day Treasury Bill plus 3 percent	Variable; rate for 1989–90 award year was 12 percent
Interest accrues during:					
School	No	No	No	Yes	Yes
Deferments	No	No	No	Yes	Yes
Grace period	No	No	No	Yes	Yes
Grace period	1 year after graduation	9 months after graduation†	6 months after graduation if interest rate is 8 or 9 percent; 9-12 months if interest rate is 7 percent	9 months after graduation	6 months after graduation

Deferments	Internship; residency; up to 3 years for active military duty, Public Health Service Corps, and Peace Corps; up to 2 years fellowship and full-time educational activity; full-time course of study at a health professions school eligible for participation in HPSL program	Up to 3 years for active military duty, Public Health Service Corps, ACTION/Peace Corps service, NOAA‡ Corps†, and temporarily totally disabled or a dependent who must be cared for; up to 2 years for internship and residency; up to 6 months for parental leave†; half-time student status	Up to 3 years for active military duty, Public Health Service Corps, ACTION/Peace Corps service, NOAA‡ Corps†, and temporarily totally disabled or a dependent who must be cared for; up to 2 years for internship and residency or unemployment; full-time student status; up to 6 months for parental leave; half-time student status if student has a Stafford or PLUS/SLS for that period	Up to 4 years for internship and residency; up to 3 years for active military duty, Public Health Service Corps, ACTION/Peace Corps service, and National Health Service Corps; up to 2 years fellowship and full-time educational activity	Up to 3 years for active military duty, Public Health Service Corps, ACTION/Peace Corps service, NOAA‡ Corps†, and temporarily totally disabled or a dependent who must be cared for; up to 2 years for internship and residency; up to 6 months for parental leave†; half-time student status if student has a GSL or PLUS/SLS for that period
Repayment requirements	Minimum: $45/quarter including interest; maximum: 10 years to repay	Minimum: $90/quarter including interest; maximum: 10 years to repay	Minimum: $50/month; maximum: 10 years to repay; eligible for loan consolidation	Minimum: amount of interest that accrues during each year; maximum: 10–25 years to repay	Minimum: $50/month; maximum: 10 years to repay; eligible for loan consolidation
Prepayment penalties	None	None	None	None	None
Allowable cancellations	Death, totally and permanently disabled	Death, totally and permanently disabled	Death, totally and permanently disabled; up to 70 percent cancellation for service as a Peace Corps or VISTA volunteer	Death, totally and permanently disabled	Death, totally and permanently disabled

*HPSL = Health Professions Student Loan; Perkins = Perkins Loan; HEAL = Health Education Assistance Loan; SLS = Supplemental Loans for Students.

†For new borrowers.

‡National Oceanic and Atmospheric Administration.

Record Maintenance

Maintaining good records is indispensable to the financial health of the borrower. Some students may find it easier to rely on others, such as parents, the financial aid office, or the lender, to maintain their loan records. However, family situations change; the financial aid office is not required to preserve student records indefinitely; and the lender's records may be inaccurate. The maintenance of precise records, including copies of application forms and signed promissory notes, will permit the borrower to verify any errors and potentially save money that may be inappropriately assigned. Further, lenders often sell their loan papers to other lenders. A borrower with poor records will be unaware of the significance of the sale and may, therefore, inadvertently default because deferment forms or payments are forwarded to the wrong financial institution.

Borrower Responsibility

The onus for keeping in touch with the lender is on the borrower. It is very important that lenders are notified of any change of permanent address. Default is inevitable if the lender is unable to communicate with the borrower or the borrower does not provide deferment forms or payments to the lender. Default results in long-term negative effects on the borrower's credit rating.

Loan Consolidation

Congress recently enacted a consolidation program for all federal student loans. Lenders, student loan guarantee agencies, and the Student Loan Marketing Association (Sallie Mae) now have the authority to consolidate loans made under the Stafford Student Loan (SSL) Program, Supplemental Loans for Students (SLS) Program, Perkins Loan Program, and Health Professions Student Loan (HPSL) Program. (See Table 6-B.) Depending on the size of an individual's total educational indebtedness, one could have up to 25 years to repay at an interest rate that is equal to the weighted average of the loans consolidated. The minimum interest rate charged on consolidated loans is 9 percent. In addition, an administrative consolidation of loans made under the Health Education Assistance Loan (HEAL) Program is also possible.. Thus a borrower eventually may be able to write one repayment check each month for loans under all of the federal programs. (More information on personal financial planning and debt management can be found in the publications listed at the end of this chapter.)

Sources of Assistance and Application Procedures

Although this chapter describes the rudiments of financial aid, each medical school has its own policies and procedures for distributing funds to students. Applicants must, therefore, maintain close contact with the financial aid offices at the schools to which they have been accepted.

Despite the variations of policies, procedures, application forms, and deadlines among institutions, a calendar showing general deadlines and dates of procedures is included here to help applicants with their plans for financing a medical education (Table 6-C). Individual schools, of course, will deviate somewhat from the schedule in the table.

In addition to understanding the financial aid award cycle and that meeting program deadlines is imperative, applicants should be aware that there are different eligibility requirements for each program. For instance, many sources of assistance are based on financial need.

Need-Based Funds

Financial need is determined by subtracting the student's family contributions and resources from the school's budget for that student. The family contribution is usually calculated by using a national needs analysis service, such as the Graduate and Professional School Financial Aid Service (GAPSFAS), the College Scholarship Service (CSS), and the American College Testing Program (ACT). Supporting material such as tax returns are often also required. Most medical schools expect full disclosure of parents' financial information—even for independent, older, or married students. It is, therefore, critical for applicants to request their parents to file their income tax forms as early in the year as possible. Applicants should also submit the required need analysis forms in February or March of the year they expect to be accepted to medical school. Medical school financial aid officers

Table 6-C

Calendar of Deadlines and Procedures for Financial Aid for Incoming Students

Event	Dates
Financial aid information sent to students	January–February
School-based aid applications sent to students	January–February
Need analysis forms sent to students	January–March
Deadline for submission of state scholarship applications by students	February–March
Deadline for submission of need analysis forms by students	March–May
Processing of applications to federal loan programs begins	March–June
Deadline for submission of institutional aid forms by students	March–June
Notification to students of estimated award of school-based aid	April–August
Notification to students of complete award package	April–August

NOTE: This schedule is approximate. Contact individual schools for specific dates.

can assist accepted students in determining their financial assistance requirements in a timely manner only if applicants begin to submit the necessary forms early.

Examples of federal need-based funds are listed in Table 6-B. School-administered programs and some private sources are also generally need-based. For example, National Medical Fellowships provides assistance to minority medical students. Individual medical schools, state departments of education, and college libraries are the best sources of information for these programs.

Cost-Based Funds

Other programs may be cost-based (that is, non-need-based). This means that a formal need analysis of family contribution is not necessarily required. The student's resources must still be taken into account and subtracted from the budget established by the school in order to determine the amount that may be obtained. The Alternative Loan Program (ALP), a component of the Association of American Medical Colleges' MEDLOANS Program, is an instance of private, non-need-based financial assistance. A description of the AAMC MEDLOANS Program and of ALP is presented below.

For the most part, whether the program is federal, private, need-based, or cost-based other eligibility criteria will normally require that the applicant be a U.S. citizen or permanent resident of the United States, make satisfactory academic progress, and comply with Selective Service registration requirements. Further, the student may not be in default on other loans. Applicants who have defaulted on prior educational debts will be unable to obtain loans from most federal programs. An individual in this circumstance may be prevented from attending medical school because of being barred from a substantial source of aid—the federal government. It is critical, therefore, to remain in good standing with all loan and scholarship programs.

AAMC MEDLOANS℠ Program

The AAMC MEDLOANS℠ Program, sponsored by the Association of American Medical Colleges, is a source of financial assistance for medical students. Using a single application form, which can be obtained from medical school financial aid offices, a student may apply for any or all of the following programs: Stafford, SLS, and ALP.

Beginning with the 1989–90 academic year, MEDLOANS substantially reduced the cost of borrowing by lowering the interest rate and reducing the frequency of compounding in-

interest for the ALP. The introduction of these enhanced terms and conditions has resulted in ALP being the least expensive privately insured loan available to medical student borrowers. Students may continue to borrow from the MEDLOANS HEAL Program, but a separate application is required.

By processing a Stafford, SLS, and ALP through MEDLOANS, the student obtains immediate and future benefits. The immediate benefits include:

1. The reduction of the compounding effect of SLSs through the addition of accrued interest to principal on an annual basis rather than compounding the interest quarterly.
2. The ALP interest rate of the 91-day Treasury Bill rate plus 2.7 percent throughout the life of the loan.
3. Accrued interest in the ALP is compounded only when repayment begins.

ALP, like the SLS Program, is a cost-based loan program. As such, the amount for which a student is eligible is determined by subtracting the student's resources from the standard student budget established by the school.

In order to borrow through MEDLOANS ALP, an applicant must be a U.S. citizen, enrolled full-time, making satisfactory progress, not in default, and creditworthy. The student's total resources may not exceed the standard student budget; and the amount borrowed from all sources, including ALP, during a given academic year cannot exceed $30,000. Further, the total aggregate educational indebtedness of the student, including ALP loans, is limited to $120,000. In addition to these criteria, individual medical schools may develop supplemental, institution-specific policies and procedures for ALP.

ALP is a variable-interest-rate loan with the rates determined on a quarterly basis by adding 2.7 percent to the average value of the 91-day Treasury Bill of the previous quarter. At the point repayment begins, the borrower has a choice of maintaining the variable interest rate or changing to a fixed interest rate based on the most recent 30-year U.S. Treasury bond rate plus 2.7 percent. ALP loan interest rates, in any case, are capped at 18 percent.

Borrowers may obtain deferments for up to 4 years for postgraduate training. Once repayment of principal and interest on ALP begins, the loan must be repaid within 20 years, depending on the size of the loan. Under any circumstances, it must be repaid within 27 years of the first disbursement of loan proceeds. ALP may also be administratively consolidated with other educational loans, but only by the MEDLOANS Program.

The MEDLOANS Program is also designed to reduce the financial burden of repayment in the future. With MEDLOANS, students can obtain the funds necessary from a single source. As a result, fragmentation of the student's indebtedness can be prevented. To the extent that a student has loans from sources other than MEDLOANS, loan consolidation will be offered with a combined repayment plan that will allow a student to collapse most, if not all, educational loan debt into a single monthly payment. Additionally, whether a MEDLOANS borrower opts for loan consolidation/combined repayment plan or does not consolidate Stafford, SLS, HEAL, and ALP funds obtained through MEDLOANS, graduated repayment schedules will be offered. Graduated repayment schedules significantly reduce the monthly payment requirement during the initial years of repayment and have been designed in light of allopathic physician income patterns.

The special features of the MEDLOANS Program, for example, a single application for all three loans, no cosigner requirement, and rapid turnaround of applications, simplify the application process and will, in the long run, provide significant improvements in the quality of service typically extended to students and financial aid officers. The benefits to be derived from these features are greatly enhanced, since the financial terms of the loans compare so favorably to others in the marketplace. Each of the three loan components under MEDLOANS now includes terms that are as competitive, and in several cases more competitive, than any existing national lending program.

Additional information regarding the MEDLOANS Program is available from a medical school financial aid officer, by contacting the MEDLOANS Customer Service Center (1-800-284-0936), or by writing:

Table 6-D

Federal Grant Programs for Students

Characteristic	Source of Grant				
	Air Force	Army	Navy	EFN Program*	FADHPS Program†
Provider	USAF Recruiting Service Directorate of Health Professions Medical Recruiting Division Randolph AFB, TX 78150-5421	US Army Health Professions Support Agency SGPS-PDF 5109 Leesburg Pike Falls Church, VA 22041-3258	Commander, Navy Recruiting Command 4015 Wilson Boulevard Arlington, VA 22203	Medical school financial aid office	Medical school financial aid office
Based on need	No	No	No	Yes—family contribution not to exceed the lesser of $5,000 or one-half cost of education	Yes—family contribution not to exceed the lesser of $5,000 or one-half cost of education plus student must be from disadvantaged background
Citizenship requirement	U.S. citizen only	U.S. citizen only	U.S. citizen only	U.S. citizen, U.S. national, or U.S. permanent resident	U.S. citizen, U.S. national, or U.S. permanent resident
Service commitment	Yes	Yes	Yes	None	None
Nature of commitment	One year of service for each year of support	One year of service for each year of support	One year of service for each year of support	Not applicable	Not applicable
Level of support	Full tuition, monthly living stipend, book and supply allowance	Full tuition, monthly living stipend, book and supply allowance	Full tuition, monthly living stipend, book and supply allowance	Tuition and other educational expenses	Up to $10,000 per year

*Scholarship Program for Students of Exceptional Financial Need.
†Financial Assistance for Disadvantaged Health Professions Students.

AAMC MEDLOANS Program
Section for Student Services
Association of American Medical Colleges
Suite 301
1776 Massachusetts Avenue, N.W.
Washington, D.C. 20036-1989

Armed Forces Health Professions Scholarship Program

The commitment service scholarship programs—military awards available through the Army, Navy, and Air Force—are not need-based or cost-based, nor are they, strictly speaking, financial aid.

The Armed Forces Health Professions Scholarship Program essentially offers full support to the medical student while in school in exchange for service in the funding organization once the scholarship recipient has received the M.D. degree. Participation in a postgraduate training program conducted at a military facility does not count toward the service commitment. Applications are very competitive and are handled by military recruiters. Addresses and further information are outlined in Table 6-D.

Information Sources

The following books, articles, brochures, and newsletters should be readily available in libraries, university counseling offices, and medical school student affairs offices, or they may be ordered directly from the publishers. Study of these materials may help students in their financial planning and lead them to further sources of financial aid.

1. Dial, T. H., and Yacavone, P. A. *Study of How Medical Students Finance Their Education, 1983–84/Phase II.* 1986. Final Report, $10.00; Executive Summary, $5.00. $2.50 postage and handling per book. (Membership and Publication Orders, Association of American Medical Colleges, Suite 200, One Dupont Circle, N.W., Washington, D.C. 20036)
2. Feingold, S. N., and Feingold, M. *Scholarships, Fellowships, and Loans.* (Bellman Publishing Company, P.O. Box 34937, Bethesda, Maryland 20827)
3. *Financial Planning Guide for Medical Students in the U.S.* Educational and Scientific Trust of Pennsylvania Medical Society. 1986. $1.70. (Educational and Scientific Trust of Pennsylvania Medical Society, P.O. Box 8820, 777 East Park Drive, Harrisburg, Pennsylvania 17105-8820)
4. Fiske, E. B. Student Debt Reshaping Colleges and Careers. *New York Times,* Education Life (Special Supplement), August 3, 1986, Pp. 34–41.
5. *Informed Decision-Making: Part I, Financial Planning and Management for Medical Students; Part II, Sources of Financial Assistance for Medical School.* National Medical Fellowships, Inc. 1988. $6.00 per set. (National Medical Fellowships, Inc., 254 West 31st Street, New York, New York 10001)
6. Student Aid: The High Cost of Living on Credit. *Change: The Magazine of Higher Learning,* 18 (No. 3), May/June 1986.
7. *The Student Guide: Five Federal Financial Aid Programs, '90–'91.* Department of Education. Free. (Federal Student Aid Programs, Department M-11, Pueblo, Colorado 81009-0015)

Chapter 7

Information for Minority Group Students

The purpose of this chapter is to inform prospective applicants who are black Americans, American Indians/Alaskan natives, Mexican Americans, mainland Puerto Ricans, and individuals who are from low-income families about the services available to assist them in applying for medical school.

Medical schools are committed to increasing the educational opportunities for underrepresented minorities in medical care, teaching, and research. The AAMC Statement on Medical Education of Minority Group Students is a reaffirmation of this commitment. This statement was a result of recent reductions in financial aid and class size which appear to threaten minority medical student enrollment.

Underrepresented minority students are being encouraged to pursue careers in medicine through the medical schools' recruitment activities and summer programs. However, recruitment and admission of minority students are only two aspects of the expansion of opportunities for minorities in medicine. Once enrolled, academic and personal support systems are available to students. These support systems promote the successful completion of medical studies by minority students to help achieve the ultimate goal: increasing the numbers of minority physicians entering careers in patient care, teaching, and research.

Over the past decade, first-year enrollment and total enrollment of underrepresented minority students have increased. From 1980-81 to 1989-90, first-year minority enrollment increased by 12.9 percent from 1,548 to 1,749 respectively (Table 7-A). Minority enrollment in all years increased by 14.1 percent from 5,209 in 1980-81 to 5,942 in 1989-90 (Table 7-B). Proportionally, in 1989-90 minority students represented 10.4 percent of the first-year class and 9.1 percent of all students. The percentage for first-year enrollment is slightly higher than that recorded in 1980 (9.0 percent for first-year) and slightly higher than total enrollment (8.0 percent for total). Of particular interest is the continuing increase in the proportion of minority women enrolled in medical school. In the 1989-90 academic year, approximately 48.8 percent of the minority students enrolled were female as compared with approximately 27 percent in 1973-74. Table 3-G in Chapter 3 presents additional information pertaining to the number of underrepresented minorities enrolled in medical school in 1989-90.

Table 7-C identifies the person primarily responsible for minority affairs at each U.S. medical school. This person should be contacted for information about entry requirements, application procedures, financial aid, and summer programs. The table also shows the number of black American, American Indian, Mexican American, and mainland Puerto Rican students in the first-year class and in all classes at each medical school.

Information on each school's program to recruit, admit, and retain educationally and economically disadvantaged students can be gathered from the individual school entries in Chapter 10. More detailed information is provided in the AAMC Section for Minority Affairs publication, *Minority Student Opportunities in United States Medical Schools* (see reference 11). The Section for Minority Affairs also works with medical school admission committees to help them make better use of cognitive and noncognitive information in the assessment and selection of nontraditional applicants.

AAMC Statement on Medical Education of Minority Group Students

The findings and recommendations of the 1970 AAMC Task Force on Minority Student Opportunities in Medical Education, combined with federal and private philanthropy support, provided the first impetus for the academic medical community to address the issue of access to the profession of medicine for individuals of underrepresented minority groups in our society.

The following decade witnessed significant progress as total enrollment of underrepresented minorities surged from 3.12 percent in 1969 to 8.0 perent in 1979. Whereas in 1969 Howard and Meharry accounted for 75 percent of all black medical students, by 1979 they accounted for only 20 percent.

Minority enrollments in U.S. medical schools reached their peak in 1975, when minorities represented 8.1 percent of the total student body. Since then, however, a leveling-off effect has dominated, and no significant increase in the number of underrepresented minorities entering medical school has occurred.

This long-term plateau indicates that if the progress achieved in providing access for more minorities to pursue careers in medicine is to continue, educational institutions, the federal government, and philanthropic organizations must reaffirm their commitment to the education of underrepresented minorities for careers in medicine as a national goal.

The AAMC and its constituent members are directing an earnest effort toward the goal of increasing opportunities for underrepresented minorities who wish to pursue careers in medical service, teaching, and research. These goals are described in detail in the 1970 "Report of the AAMC Task Force to the Inter-Association Committee on Expanding Educational Opportunities in Medicine for Blacks and Other Minority Students." These goals were also reaffirmed in the 1978 "Report of the AAMC Task Force on Minority Student Opportunities in Medicine."

Medical schools, working with cooperating undergraduate institutions, the AAMC, other agencies, and interested entities, are urged to help increase minority student awareness of the opportunities for professional education and specific preparation necessary for medical school. Minority students, thus motivated, prepared, and recruited, should be provided with the necessary encouragement and support to ensure their retention in and graduation from medical schools. To strengthen these efforts, medical schools are encouraged to continue to identify a faculty member or administrator who can be specifically charged with responsibility for minority student affairs. The person designated for this role should be a member of a minority group and should work closely with the AAMC Group on Student Affairs to represent the medical school in the activities of the Group on Student Affairs' Minority Affairs Section.

Medical schools are encouraged to pursue actively the expansion of minority student support funds from local, state, and federal levels. The AAMC is making known to the American public and to the federal government these needs to increase financial aid for minority students and for all students.

The AAMC-AMA Liaison Committee on Medical Education (LCME) is strongly encouraged to review critically the degree of individual opportunity provided to minority students. The LCME should continue to include in its membership and accreditation teams representatives from minority group members who have experience and knowledge in the education of minority group students.

The AAMC and its constituent members reaffirm their commitment to these efforts. Many current trends point to the urgency and timeliness of this affirmation: a perceived physician surplus in the face of an underrepresentation of minority physicians, the continuing physician maldistribution vis-a-vis minority and other underserved areas, the lack of opportunity for minorities in graduate medical programs, the underrepresentation of both minority medical students and faculty members in medical education, and the increasing cost of medical education to minorities and other low-income individuals. The AAMC and its member schools urge that, in any deliberations regarding physician manpower, the recruitment and graduation of individuals from underrepresented minorities in medical education be considered with particular care.

Approved by the AAMC Executive Council
June 1987

Additional information concerning medical school minority student programs can be secured from medical school contact persons or offices listed in Table 7-C and from premedical advisers at the undergraduate colleges.

Medical Minority Applicant Registry (Med-MAR)

One of the services initiated by the AAMC for students from minority groups is the Medical Minority Applicant Registry (Med-MAR). This program provides the opportunity for any medical school applicant belonging to a minority group to have basic biographical information circulated automatically, at no cost, to the admission offices of all U.S. medical schools as well as to other health services organizations and institutions that request the Med-MAR lists. Students are invited to participate in Med-MAR by identifying themselves as belonging to an underrepresented minority group—black American, Mexican American, American Indian, mainland Puerto Rican, or individual from low-income family—on a questionnaire completed at the time they take the Medical College Admission Test (MCAT). Two Med-MAR lists are published annually (usually in July and November) and circulated to all U.S. medical schools. Medical schools interested in certain students correspond with them directly and request more detailed information.

Inclusion of an applicant's name on a Med-MAR list does not automatically waive the application fees. Waiver of medical school application fees is determined by each school on an individual basis. Similarly, fees for the American Medical College Application Service (AMCAS) are waived on an individual basis. MCAT fees are not waived.

For information about matters related to minority students, the applicant should write to:

Minority Student Information
Clearinghouse
Association of American Medical Colleges
Suite 200
One Dupont Circle, N.W.
Washington, D.C. 20036

Financial Aid

Because of the variety and scope of financial assistance plans, applicants to both public and private medical schools should not think that they are unqualified for admission solely because of financial status. Generally, medical schools have been successful in providing adequate funding to meet the needs of their students. However, it is the responsibility of applicants to devote careful and thorough attention to all aspects of their educational financing. Before enrolling, applicants should obtain specific information from the medical schools about possibilities of financial assistance. (See Chapter 6.)

Financial assistance is usually made available to medical students in the form of loans or a combination of scholarships and loans. The amount awarded is determined by most schools on the basis of economic need rather than on the basis of academic performance. Financial need is usually determined by a need analysis system belonging to one of the national organizations established specifically for this purpose. Student aid comes from a variety of sources, some of which are listed below:

(Text continued on page 72.)

Table 7-A

Selected Minority Group Enrollment in First-Year Classes in U.S. Medical Schools, 1981-82 Through 1989-90

Year	Black American		American Indian		Mexican American		Mainland Puerto Rican		Total First-Year Enrollment
	Number Enrolled*	% of Total First-Year Enrollment	Number Enrolled	% of Total First-Year Enrollment	Number Enrolled	% of Total First-Year Enrollment	Number Enrolled	% of Total First-Year Enrollment	
1981-82	1,196	6.9	70	0.4	300	1.8	105	0.6	17,268
1982-83	1,145	6.6	62	0.4	305	1.8	114	0.7	17,254
1983-84	1,173	6.8	75	0.4	301	1.8	109	0.6	17,150
1984-85	1,148	6.8	77	0.5	329	1.9	118	0.7	16,997
1985-86	1,117	6.6	60	0.4	331	2.0	136	0.8	16,963
1986-87	1,174	7.0	61	0.4	331	2.0	111	0.7	16,819
1987-88	1,221	7.3	68	0.4	308	1.8	116	0.7	16,713
1988-89	1,210	7.2	76	0.5	295	1.7	127	0.8	16,868
1989-90	1,221	7.3	82	0.5	307	1.8	139	0.8	16,756

NOTE: First-year class enrollment figures include new entrants and those students repeating, reentering, or continuing the initial year.

*These figures include black Americans enrolled at predominantly black schools. In 1989-90, a total of 188 were enrolled at Howard, Meharry, and Morehouse medical schools.

Table 7-B

Selected Minority Group Total Enrollment in U.S. Medical Schools, 1981-82 Through 1989-90

Year	Black American		American Indian		Mexican American		Mainland Puerto Rican		Total Enrollment
	Number Enrolled*	% of Total Enrollment	Number Enrolled	% of Total Enrollment	Number Enrolled	% of Total Enrollment	Number Enrolled	% of Total Enrollment	
1981-82	3,884	5.9	229	0.3	1,040	1.6	350	0.5	66,298
1982-83	3,869	5.8	235	0.4	1,071	1.6	369	0.6	66,748
1983-84	3,892	5.8	258	0.4	1,082	1.6	368	0.5	67,327
1984-85	3,944	5.9	257	0.4	1,126	1.7	380	0.6	67,016
1985-86	3,849	5.8	235	0.4	1,143	1.7	428	0.6	66,585
1986-87	3,892	5.9	242	0.4	1,153	1.7	435	0.7	66,125
1987-88	3,968	6.0	233	0.4	1,144	1.7	467	0.7	65,735
1988-89	3,995	6.1	237	0.4	1,128	1.7	438	0.7	65,300
1989-90	4,145	6.4	258	0.4	1,087	1.7	452	0.7	65,016

*These figures include black Americans enrolled at predominantly black schools. In 1989-90, a total of 594 were enrolled at Howard, Meharry, and Morehouse medical schools.

Source of tables: Fall Enrollment Questionnaires.

Table 7-C

Minority Student Enrollment by Individual U.S. Medical Schools

		Minority Enrollments, Fall 1989 (First-Year Class/All Classes)*			
Medical School	Contact Person or Office	Black American	American Indian	Mexican American	Mainland Puerto Rican
Alabama	Dr. Marlon L. Priest Assistant Dean for Minority Enhancement	7/22	2/7	0/0	0/0
Alabama, South	Dr. Mark S. Johnson Assistant Dean for Special Programs	8/21	1/2	0/1	0/0
Albany	A. James Powell Assistant Dean for Minority Affairs	3/13	0/0	0/1	1/2
Albert Einstein	Dr. Milton Gumbs Assistant Dean for Minority Student Affairs	16/47	0/1	0/1	4/21
Arizona	Dr. Andrew M. Goldner Associate Dean for Student Affairs	0/4	0/4	9/29	1/2
Arkansas	Dr. Robert B. Lewis Assistant Dean for Minority Student Affairs	13/40	1/2	1/3	0/0
Baylor	Dr. Robert J. Bacon, Sr. Assistant Dean	4/8	0/0	4/21	0/0
Boston	Dr. Kenneth Edelin Associate Dean for Students and Minority Affairs	12/43	1/3	1/10	3/8
Bowman Gray	Dr. Velma G. Watts Director of Minority Affairs	9/21	0/0	0/0	0/2
Brown	Dr. James Wyche Associate Dean of Medicine for Minority Affairs	8/18	0/0	1/3	0/4
California, Southern	Althea Alexander Assistant Dean for Minority Affairs	6/26	0/0	9/22	2/2
California, University of					
Davis	Margie Beltran Director, Health Resources Development Program	10/25	2/8	13/49	0/4
Irvine	Dr. Kenneth Ibsen Assistant Dean	6/19	0/3	9/44	2/3

Table 7-C (Continued)

Minority Student Enrollment by Individual U.S. Medical Schools

		Minority Enrollments, Fall 1989 (First-Year Class/All Classes)*			
Medical School	Contact Person or Office	Black American	American Indian	Mexican American	Mainland Puerto Rican
Los Angeles (UCLA) (and Drew program)	Patricia Pratt (UCLA) Office of Special Education Dr. Alice Faye Singleton (Drew) Assistant Dean for Student Affairs	23/87	0/1	16/54	1/5
San Diego	Dr. Percy J. Russell Associate Dean, Student Outreach	13/46	2/3	16/53	2/2
San Francisco (and Berkeley program)	Dr. David Sanchez, Jr. Associate Professor, Department of Ophthalmology	13/60	5/14	13/57	1/9
Caribe	Dr. Arturo Santiago Dean for Admissions and Student Affairs	0/0	0/0	1/3	11/25†
Case Western Reserve	Dr. James L. Phillips Associate Dean for Student Affairs and Minority Programs	20/60	0/1	2/3	1/2
Chicago Medical	Dr. Timothy Hansen Director, Ancillary Educational Programs	6/27	1/2	1/4	2/2
Chicago-Pritzker	Dr. James Bowman Assistant Dean for Students	1/11	0/0	1/5	0/5
Cincinnati	Clarice Fooks Assistant Dean for Admissions and Student Affairs	9/33	0/1	0/2	0/0
Colorado	Jerry Soliz Director of Financial Aid	2/7	0/0	7/16	1/3
Columbia	Dr. Margaret Haynes Director, Office of Minority Affairs	8/32	0/1	0/4	1/12
Connecticut	Dr. Marja Hurley Associate Dean, Minority Student Affairs	2/13	0/3	1/2	1/5
Cornell	Dr. Bruce L. Ballard Associate Dean for Equal Opportunity Programs	12/40	0/0	2/11	2/9
Creighton	Negleathea Johnson Director of Minority Affairs	3/14	0/1	0/0	0/0

Table 7-C (Continued)

Minority Student Enrollment by Individual U.S. Medical Schools

		Minority Enrollments, Fall 1989 (First-Year Class/All Classes)*			
Medical School	Contact Person or Office	Black American	American Indian	Mexican American	Mainland Puerto Rican
Dartmouth	Dr. Vincent Collins Minority Affairs Officer	3/11	4/7	3/6	0/2
Duke	Dr. Doyle G. Graham Dean, Medical Education	8/30	0/1	0/0	0/0
East Carolina	Dr. Zubie W. Metcalf, Jr. Director, Center for Student Opportunities	12/30	2/4	0/0	0/0
Emory	Dr. Andre Churchwell Director, Office of Minority Affairs	6/23	0/0	0/0	0/0
Florida (and FSU/FAMU/UWF program)	Dr. Dwayne Thomas Director, Office of Minority Affairs	10/33	0/0	0/0	0/0
Florida, South	Dr. Pierre J. Bouis, Jr. Associate Dean for Continuing Medical Education and Affirmative Action Affairs	3/9	0/0	2/2	0/0
George Washington	Dr. John F. William, Jr. Assistant Dean for Admissions	6/22	0/0	0/0	0/0
Georgetown	Dr. Arthur H. Hoyte Director, Office of Programs for Student Development and Community Affairs	13/65	2/3	2/3	0/1
Georgia, Medical College of	Dr. Vera B. Thurmond Assistant Professor, Medical Education and Minority Affairs	11/47	0/1	1/1	1/2
Hahnemann	Fredericka E. Waugh Director, The Resource System	22/72	0/2	1/3	2/5
Harvard	Dr. Alvin F. Pouissant Associate Dean for Student Affairs	13/58	0/2	7/22	4/10
Hawaii	Dr. Gwen S. Naguwa Associate Dean for Student Affairs	0/0	2/2	0/0	0/0
Howard	Sterling M. Lloyd, Jr. Assistant Dean for Student Affairs and Admissions	73/241	0/0	0/0	0/1

Table 7-C (Continued)

Minority Student Enrollment by Individual U.S. Medical Schools

		Minority Enrollments, Fall 1989 (First-Year Class/All Classes)*			
Medical School	Contact Person or Office	Black American	American Indian	Mexican American	Mainland Puerto Rican
Illinois, Southern	Dr. Harold R. Bardo Director, MEDPREP	4/20	0/0	1/1	0/0
Illinois, University of	Dr. William D. Wallace Associate Dean and Director of Urban Health Program	36/130	2/4	20/78	5/18
Indiana	Marion K. Kelly Assistant Director of Admissions/ Minority Affairs Advisor	5/17	1/2	2/4	0/1
Iowa	Madgetta T. Dungy Program Associate for Student Affairs	12/39	1/3	5/21	2/5
Jefferson	Dr. George A. Alexander Assistant Dean for Student and Minority Affairs	5/27	0/3	1/6	0/1
Johns Hopkins	Dr. Roland T. Smoot Assistant Dean for Student Affairs	16/46	0/0	0/2	0/0
Kansas	Melvin Williams Director of Affirmative Action	6/13	2/3	2/8	2/6
Kentucky	Dr. Jayne Middleton Associate Dean for Education	3/10	0/0	0/0	0/0
Loma Linda	Dr. William M. Hooker Associate Dean for Student Affairs	4/18	0/0	0/4	1/2
Louisiana State—New Orleans	Dr. Edward Helm Assistant Dean, Minority Affairs	12/35	0/2	2/2	1/4
Louisiana State—Shreveport	Dr. Mildred Scott Coordinator	4/18	0/0	0/1	0/0
Louisville	Michael Byrne Director of Special Programs	1/12	0/0	0/0	0/0
Loyola-Stritch	Dr. Michael L. Rainey Associate Dean for Student Affairs	3/10	0/0	0/5	2/3
Marshall	Dr. Patrick I. Brown Associate Dean for Student and Academic Affairs	0/0	0/1	0/1	0/0

Table 7-C (Continued)

Minority Student Enrollment by Individual U.S. Medical Schools

Medical School	Contact Person or Office	Minority Enrollments, Fall 1989 (First-Year Class/All Classes)* Black American	American Indian	Mexican American	Mainland Puerto Rican
Maryland	Dr. Robert G. Harrell Assistant Dean of Student Affairs	24/58	0/0	0/1	0/1
Massachusetts	Dr. Deborah Harmon Hines Associate Dean for Minority and Community Academic Affairs	5/15	0/2	0/1	2/6
Mayo	Robert W. Giere Administrative Assistant	1/3	0/1	0/2	1/2
Meharry	Dr. Thomas W. Johnson, Sr. Associate Dean for Student and Academic Affairs	81/240	0/0	0/0	0/0
Mercer	Dr. Roger Comeau Associate Dean for Admissions/ Student Affairs	3/14	0/1	0/0	0/0
Miami	Dr. Robert L. Bragg Associate Dean	10/41	0/1	0/0	1/4
Michigan State	Dr. Carrie B. Jackson Director of Student Affairs	9/52	0/1	5/17	1/4
Michigan, University of	Dr. Margaret C. Woodbury Assistant Dean for Student and Minority Affairs	34/99	2/7	6/22	0/3
Minnesota—Duluth‡	Dr. Robert S. Pozos Associate Professor	1/1	1/2	0/0	0/0
Minnesota—Minneapolis	Dr. Cassius Ellis III Assistant to the Dean for Student Affairs	2/10	1/4	3/7	0/1
Mississippi	Dr. Leon Anderson, Jr. Director of Minority Affairs	9/29	0/0	0/2	0/0
Missouri—Columbia	Barbara Horrell Coordinator, Student Recruitment	4/9	2/2	3/4	0/0
Missouri—Kansas City	Dr. Reaner Shannon Associate Professor	5/22	0/0	2/3	0/1
Morehouse	Dr. Angela Franklin Assistant Dean for Student Affairs	34/113	0/1	0/2	0/1

Table 7-C (Continued)

Minority Student Enrollment by Individual U.S. Medical Schools

Medical School	Contact Person or Office	Minority Enrollments, Fall 1989 (First-Year Class/All Classes)*			
		Black American	American Indian	Mexican American	Mainland Puerto Rican
Mount Sinai	Dr. Carol Burnett Assistant Dean, Admissions and Student Affairs	7/19	0/0	1/2	1/13
Nebraska	Alfonso Lopez Director of Minority Student Affairs	7/24	1/3	5/13	0/0
Nevada	Dr. Joel H. Lanphear Associate Dean for Academic and Curricular Affairs	0/2	0/0	1/2	0/0
New Jersey:					
UMDNJ-New Jersey Medical	James Foster Assistant Dean for Minority Affairs	31/79	0/0	0/1	15/30
UMDNJ-Robert Wood Johnson	Dr. Florence Kimball Director, Office of Special Academic Programs	15/42	0/2	0/0	7/16
New Mexico	Dr. Alonzo C. Atencio Assistant Dean, Student Affairs	2/4	4/6	5/38	0/2
New York Medical	Dr. Anthony Clemendor Associate Dean for Student Affairs	16/76	1/1	2/8	3/14
New York University	Dr. Veva Zimmerman Associate Dean, Student Affairs	5/9	0/0	0/0	2/2
New York:					
SUNY—Brooklyn	Rudolph M. Williams Assistant Vice President, Special Academic Projects/Director, Minority Affairs	28/89	0/0	0/0	4/15
SUNY—Buffalo	Dr. Maggie S. Wright Director of Minority Affairs	10/47	0/2	0/3	4/19
SUNY—Stony Brook	Dr. Aldustus E. Jordan Associate Dean	6/16	0/0	0/0	2/5
SUNY—Syracuse	Dr. N. Barry Berg Assistant Dean for Academic Achievement	27/63	0/2	0/0	4/5
North Carolina	Marion Phillips Associate Dean	19/76	1/9	0/1	0/1
North Dakota	Gary D. Farris Director, INMED Program	0/0	5/18	0/0	0/0

Table 7-C (Continued)

Minority Student Enrollment by Individual U.S. Medical Schools

Medical School	Contact Person or Office	Minority Enrollments, Fall 1989 (First-Year Class/All Classes)*			
		Black American	American Indian	Mexican American	Mainland Puerto Rican
Northwestern	Delores Brown Assistant Dean, Minority Affairs	7/17	0/0	0/1	0/0
Ohio, Medical College of	Dr. Barry L. Richardson Associate Dean of Minority Affairs	15/45	1/1	2/5	0/0
Ohio, Northeastern	Charles G. Mickens Director of Minority Affairs	2/4	1/2	0/1	0/1
Ohio State	Leibert W. Morris Special Assistant for Student Affairs	18/60	0/0	1/1	0/0
Oklahoma	Susan Massara Admissions Coordinator	6/24	10/23	0/2	2/2
Oregon	Beth Britton Associate Director, Office of Minority Student Affairs	2/5	2/2	0/0	0/1
Pennsylvania, Medical College of	Carl Ealy Director of Minority Affairs and Student Support Services	8/26	0/1	2/2	4/7
Pennsylvania State	Dr. Alphonse E. Leure-duPree Assistant Dean for Student Affairs	7/18	0/0	0/1	0/0
Pennsylvania, University of	Dr. Karen Hamilton Associate Director, Minority Affairs	6/40	0/2	2/8	3/14
Pittsburgh	Dr. Nancy Washington Assistant Dean for Minority Affairs	14/46	0/0	0/0	0/1
Ponce	Dr. Ana Padró Dean for Admissions	0/0	0/0	0/0	1/4†
Puerto Rico	Carmen M. Lopez-Maiz Assistant Dean for Student Affairs	0/0	0/0	0/1	3/14†
Rochester	Brenda D. Lee Assistant Dean for Medical Education and Student Services	8/34	0/0	2/2	1/2
Rush	Dr. William Schwer Chairperson, Committee on Admissions	5/18	0/2	0/3	0/0

Table 7-C (Continued)

Minority Student Enrollment by Individual U.S. Medical Schools

		Minority Enrollments, Fall 1989 (First-Year Class/All Classes)*			
Medical School	Contact Person or Office	Black American	American Indian	Mexican American	Mainland Puerto Rican
Saint Louis	Dr. Manuel R. Comas Associate Dean, Admissions and Student Affairs	1/2	0/0	0/0	0/1
South Carolina, Medical University of	Dr. Earl Higgins Office of Minority Affairs and Affirmative Action	3/19	0/0	0/0	0/0
South Carolina, University of	Dr. Robert F. Sabalis Senior Associate Dean for Student Programs	2/12	0/0	0/0	0/0
South Dakota	Dr. Raymond J. Lynn Dean, Student Affairs	0/0	0/1	0/0	0/0
Stanford	Dr. Fernando S. Mendoza Assistant Dean for Student Affairs	4/37	0/5	6/33	0/8
Temple	Charles S. Ireland, Jr. Assistant Dean and Director, RAR Program	24/94	1/1	2/3	1/16
Tennessee State, East	Dr. Dorothy Dobbins Assistant Dean, Student Affairs	6/24	0/0	0/0	0/0
Tennessee, University of	Leroy O. Moore Assistant Dean, Admission and Student Affairs	19/44	0/0	0/0	0/0
Texas A&M	Dr. William E. Ward Associate Dean for Admissions and Student Affairs	1/7	0/0	8/16	0/0
Texas Tech	Dr. James A. Chappell Associate Dean for Academic Affairs	0/1	1/4	4/14	1/1
Texas, University of Dallas (Southwestern)	Dr. Drew Alexander Assistant Dean for Minority Student Affairs	10/29	2/2	20/77	0/0
Galveston	Dr. William K. King Acting Assistant Dean of Students and Director of Office of Special Programs	10/41	2/6	0/0	0/0
Houston	Dr. Lillian Poats Coordinator of Student Support Program	8/20	1/2	17/40	4/4

Table 7-C (Continued)

Minority Student Enrollment by Individual U.S. Medical Schools

Medical School	Contact Person or Office	Minority Enrollments, Fall 1989 (First-Year Class/All Classes)*			
		Black American	American Indian	Mexican American	Mainland Puerto Rican
San Antonio	Dr. Leonard E. Lawrence Associate Dean for Student Affairs	7/25	0/1	26/83	0/2
Tufts	Dr. Raquel Bauman Associate Dean for Students	4/13	0/2	4/12	2/9
Tulane	Dr. Anna Cherrie Epps Assistant Dean for Student Services	3/24	0/1	1/2	1/3
Uniformed Services University	Dr. Jeannette South-Paul Minority Affairs Coordinator	6/22	1/2	4/7	0/3
Utah	Herman Hooten Coordinator, Minority Affairs	0/2	1/4	3/10	0/0
Vanderbilt	Dr. William B. Lawson Director, Office of Minority Student Affairs	4/8	1/1	1/1	0/0
Vermont	Dr. Marga S. Sproul Associate Dean for Admissions	0/0	1/1	1/3	0/0
Virginia, Eastern	Gail C. Williams Assistant Dean for Minority Affairs	2/16	0/0	1/1	0/0
Virginia, Medical College of	Dr. W. Kenneth Blaylock Associate Dean, Medical School Admissions	10/32	1/2	0/1	1/1
Virginia, University of	Dr. Maurice Apprey Assistant Dean	4/29	0/1	0/1	1/2
Washington University (St. Louis)	Dr. Robert Lee Assistant Dean, Minority Student Affairs	8/36	0/0	0/0	1/1
Washington, University of	Dr. John Vassall Director, Minority Affairs Program	5/14	2/11	3/17	0/1
Wayne State	Dr. Jane Thomas Counselor, Student Affairs	45/116	2/5	3/10	1/1
West Virginia	Dr. John W. Traubert Associate Dean for Student Affairs	0/1	0/0	0/0	0/0

Table 7-C (Continued)

Minority Student Enrollment by Individual U.S. Medical Schools

		Minority Enrollments, Fall 1989 (First-Year Class/All Classes)*			
Medical School	Contact Person or Office	Black American	American Indian	Mexican American	Mainland Puerto Rican
Wisconsin, Medical College of	Dr. William D. Drucker Assistant Dean for Student Affairs/Director, Minority Affairs	4/12	0/1	0/8	0/1
Wisconsin, University of	Robert H. Brown Specialist-Student Services	1/14	2/7	5/20	4/8
Wright State	Allen N. Pope Director, Minority Affairs and Financial Aid	17/46	0/0	0/1	0/0
Yale	Maxine I. Whitehead Director, Office of Minority Affairs	13/40	0/0	0/1	4/11
Total		1,221/4,145	82/258	307/1,087	139/452

Source: 1989 Fall Enrollment Questionnaire. Reflects enrollments as of October 18, 1989, at 126 U.S. medical schools.

*The first figure under each minority category is the number of minority students in the 1989-90 first-year class; the second figure is the total number of these students enrolled in the medical school.

†These figures represent students who are mainland Puerto Rican residents only and do not include residents of the commonwealth of Puerto Rico.

‡Two-year school of basic medical sciences.

1. Directly from the medical school, usually from endowments or grants made to the school for use in the support of students.
2. The federally supported Scholarship Program for Students of Exceptional Financial Need.
3. The federally supported National Health Service Corps Scholarship Program and the Armed Forces Health Professions Scholarship Program, which may include payment of tuition and other reasonable expenses plus a monthly stipend in return for specific periods of service following graduation from medical school. (Places in the National Health Service Corps Scholarship Program will be limited, if available at all.)
4. The federally supported Stafford Student Loan Program and the Health Education Assistance Loan Program, under which the student borrows money from a bank or other private lender, a state, or a medical school, and the federal government guarantees to the lender repayment of the major portion of the loan and in some cases payment of the interest on the loan while the student is still in school.
5. The federally sponsored Health Professions Student Loan Program, which is limited to applicants of exceptional financial need.
6. The federally administered Perkins Loan Program, which provides loans at 5 percent interest through the medical schools.
7. National Medical Fellowships, Inc., which provides grants to aid minority group students to reduce the amount of loan indebtedness incurred by the students.
8. Loans or scholarship funds available in certain states to residents to enable them to study medicine. The amounts awarded

and the programs themselves differ widely among the states that offer them.

9. Loans and scholarship funds available to medical students directly from various philanthropic organizations.

The federal financial assistance programs described in the preceding list are subject to change due to congressional and executive review. Students should obtain up-to-date information on each of these programs from the schools either when interviewed or accepted.

Further information about these sources and about financial aid programs in general is provided in Chapter 6. Information on admission procedures for individual medical schools is given in Chapter 10.

Research Opportunities

The National Institutes of Health is concerned about the very low representation of minority physicians in biomedical research. In response to this concern, two programs have been established to expose minority students to medical research: the Minority Biomedical Research Support Program and the Minority Access to Research Careers Program.

The Minority Biomedical Research Support (MBRS) Program, sponsored by the National Institute of General Medical Sciences, supports institutional grants to provide undergraduate and graduate students an opportunity to participate in faculty research. Grants include several individual research projects in an institutional program focused on improving the research environment, providing faculty at undergraduate colleges a research opportunity, and encouraging students to pursue research careers. The major objective is to increase the numbers of minorities engaged in biomedical research. The MBRS Program makes awards to eligible minority institutions only.

Further information about the program can be obtained from:

Minority Biomedical Research
Support Program
Room 952, Westwood Building
National Institutes of Health
Bethesda, Maryland 20892

The Minority Access to Research Careers (MARC) Program, sponsored by the National Institute of General Medical Sciences, is designed to assist minority institutions in training more scientists and teachers in the biomedical sciences. Funding is provided through the MARC Faculty Fellowships, the Visiting Scientists Awards, the MARC Honors Undergraduate Research Training Awards, and the new MARC Predoctoral Fellowship Awards. The MARC Program proposes to enhance the qualifications of minority students pursuing graduate programs leading to the Ph.D. degree and to strengthen research training programs in the biomedical sciences by providing institutional fellowships to undergraduates.

Information on these programs can be obtained from:

Elward Bynum, Director
MARC Program
National Institute of
General Medical Sciences
National Institutes of Health
Bethesda, Maryland 20205
Telephone: (301) 496-7941

Information Sources

Students may find the following articles, books, and brochures helpful in planning their medical careers.

1. *A Handbook for Minority Pre-Med Students.* American Medical Student Association. Revision in progress. Call 703/620-6600 for price. (American Medical Student Association, 1890 Preston White Drive, Reston, Virginia 22091)
2. *Career Choices: Health Professions Opportunities for Minorities.* Free. (Office of Statewide Health Planning and Development, Health Professions Career Opportunity Program, 1600 Ninth Street, Sacramento, California 95814)
3. *Educational Survival Skills Reading Package.* Free. (Office of Statewide Health Planning and Development, Health Professions Career Opportunity Program, 1600 Ninth Street, Sacramento, California 95814)
4. Epps, A. C., and Pisano, J. C. *MEdREP at Tulane: Effectiveness of a Medical Education Reinforcement and Enrich-*

ment Program for Minorities in the Health Professions. 1985. $12.00. (Futura Publishing Company, Inc., 295 Main Street, P.O. Box 330, Mount Kisco, New York 10549)

5. *Financial Advice for Minority Students Seeking an Education in the Health Professions.* Free. (Office of Statewide Health Planning and Development, Health Professions Career Opportunity Program, 1600 Ninth Street, Sacramento, California 95814)
6. *Financial Aid for Minorities in Health Fields.* 1987. $4.00. ISBN 0-912048-53-0. (Garrett Park Press, P.O. Box 190, Garrett Park, Maryland 20896)
7. Haller, E. H., and Myers, R. A. (Eds.). *Searching, Teaching, Healing: American Indians and Alaskan Natives in Biomedical Research Careers.* 1986. $9.95. (Futura Publishing Company, Inc., 295 Main Street, P.O. Box 330, Mount Kisco, New York 10549)
8. *Health Pathways.* Free. (Office of Statewide Health Planning and Development, Health Professions Career Opportunity Program, 1600 Ninth Street, Sacramento, California 95814)
9. *Informed Decision-Making: Part I, Financial Planning and Management for Medical Students; Part II, Sources of Financial Assistance for Medical School.* National Medical Fellowships, Inc. 1988. $6.00 per set. (National Medical Fellowships, Inc., 254 West 31st Street, New York, New York 10001)
10. Lerner, M. *Medical School: The Interview and the Applicant.* 1981. $8.95. (Barron's Educational Series, Inc., 250 Wireless Boulevard, Hauppauge, New York 11788)
11. *Minority Student Opportunities in United States Medical Schools, 1989-90.* 11th edition. Association of American Medical Colleges. 1989. $7.50 plus $2.50 postage and handling. (Membership and Publication Orders, Association of American Medical Colleges, Suite 200, One Dupont Circle, N.W., Washington, D.C. 20036)
12. Schlachter, G. A., and Goldstein, S. E. *Directory of Financial Aids for Minorities, 1989-90.* 1989. $45.00. (Reference Service Press, 1100 Industrial Road, Suite 9, San Carlos, California 94070)
13. *Time Management for Minority Students.* Free. (Office of Statewide Health Planning and Development, Health Professions Career Opportunity Program, 1600 Ninth Street, Sacramento, California 95814)

Chapter 8

Information for Applicants Not Admitted to Medical School

Applicants who are unsuccessful in gaining admission to medical school should reassess their motivations for seeking to enter the field of medicine considering alternative, equally fulfilling careers as well as analyze the reasons for failure to gain admission.

If the major motivation is a strong interest in research and teaching in the biological and life sciences, then entering a doctoral program in biochemistry, microbiology, physiology, anatomy, pharmacology, experimental psychology, or biology could be the pathway to a rewarding career. If the major motivation is to work with people in an assistive role, then teaching, clinical psychology, guidance counseling, law, or personnel management might be considered. If the major motivation is to be engaged in some aspect of the health care industry, then hospital administration, dentistry, optometry, podiatry, nursing, occupational therapy, physical therapy, pharmacy, radiation technology, radiation physics, or medical technology could well provide very satisfactory career alternatives. If the major motivation is to have prestige and to manage and control personal income, a career in business is more likely to be rewarding.

Having reassessed their motivations, rejected applicants should attempt to analyze why they failed to gain admission. An important question should be whether their academic credentials are within a reasonable range. An applicant's academic record and Medical College Admission Test (MCAT) scores are carefully scrutinized by admission committees. Although these factors may be outweighed by other factors in admission committees' final decisions, applicants whose grades in the required science courses are in the minimum range or whose MCAT scores fall significantly below the national mean can conclude that their academic credentials were a significant factor in their failure to be admitted. If achievement in college course work has steadily improved and high achievement in courses required for entrance was attained late in the application cycle, applicants might assume that their full academic potential was not displayed at the time admission decisions were made.

The personal statement, which is requested in the application materials, is an important means for applicants to communicate their views of themselves and their aspirations. Criticism by knowledgeable advisers of the personal statement submitted previously might be useful for repeat applicants.

The number of schools applied to may have been too few or the selection of schools may not have been judicious. Public or private schools that receive state support are generally committed to accept a preponderance of legal residents of their state. Therefore, applicants' best chances for admission are at public or private medical schools within their own states. The optimum number of applications cannot be stated precisely. Up to a point, the statistical chances of being admitted increase with the number of applications submitted. However, the number of applications and the accompanying costs can be maintained within reasonable bounds if applicants plan carefully.

Another important factor is the time in the application cycle when applications are filed. Applications filed early will receive earlier attention than those filed close to the deadline for receipt of applications. Schools vary in the timing of their acceptance decisions. (See Chapter 5.) In some instances, an applicant filing late in the application cycle may be considered at a time when there are relatively few positions available.

Applicants who have reassessed their motivation and analyzed the possible reasons for their failure to gain admission may decide to reapply. Usually, to reapply at least once is a reasonable decision.

Reapplicants who have graduated must consider how to spend their time during the year when they are reapplying. Admission committees may view those who continue academic work more positively than those who abandon their studies. Continuation of academic work as a postbaccalaureate, nondegree candidate may be advantageous in improving an academic record. However, it must be remembered that only grades from summer sessions or fall terms will be available for timely submission to admission committees. Entering a master's or doctoral program with the idea of abandoning the program if reapplication to medical school is successful should be entertained only if applicants are willing to be candid with program directors and with admission committees about their plans. Finally, working in a biosciences or health-related occupation may provide a modest advantage to reapplicants.

Foreign Medical Schools

The quality of the educational experience should be the primary concern of those students who wish to study medicine outside the United States. Traditionally, U.S. citizens attempting to study medicine abroad often sought entrance to highly regarded, nationally supported institutions in Western European countries, but for a variety of reasons in recent years it has become very difficult for foreign nationals, including U.S. citizens, to gain admission to those schools. Consequently, U.S. citizens are usually restricted in their options for foreign medical education to institutions where external assurance of the quality of the educational program is either minimal or totally lacking. In the United States and Canada quality assurance is maintained by the Liaison Committee on Medical Education, which carefully scrutinizes both the caliber of academic programs and the adequacy of resources of the institutions listed in this publication.

In 1980 the General Accounting Office (GAO), an investigative agency of the U.S. Congress, reported on six foreign schools which it studied and which were estimated to enroll about half of all U.S. citizens studying medicine abroad. The report, reaffirmed in 1985 by a follow-up GAO study, stated:

> *The foreign medical schools GAO visited differed considerably, and the merits or problems of each school must be viewed separately. However, in GAO's opinion, none of them offered a medical education comparable to that available in the United States because of deficiencies in admission requirements, facilities and equipment, faculty, curriculum, or clinical training. While it is difficult to judge the adequacy of the foreign medical schools in all of these areas, a serious shortcoming at each school was the lack of adequate clinical training facilities. None of the foreign schools had access to the same range of clinical facilities and numbers and mix of patients as a U.S. medical school.* (See reference 14.)

In recent years, there has been a growth in private and often profit-making medical schools in the island nations of the Caribbean and in Mexico that cater to U.S. students. These schools are frequently advertised in U.S. newspapers. The ads carry the implications that the schools have status because enrolled U.S. students are eligible to obtain federally guaranteed student loans from private lenders. A 1986 amendment to the Higher Education Act now limits the eligibility for federally guaranteed student loans for U.S. citizens studying in foreign medical schools. For U.S. citizens to be eligible, at least 60 percent of the foreign medical school's enrollment must consist of natives of the country in which the school is located or at least 50 percent of the U.S. citizens who had graduated from the school during the previous two years must have passed the Foreign Medical Graduate Examination in the Medical Sciences (FMGEMS).

Services are also advertised which purport to be able to place U.S. students in foreign (and sometimes in domestic) medical schools. These services usually require significant fees (hundreds to thousands of dollars) and provide no help that cannot be obtained from college premedical advisers or through available reference materials.

In summary, the opportunities for U.S. citizens to obtain a quality medical education abroad are very restricted, and the possibility of their being exploited by schools catering to the U.S. student market is great.

Return to the United States

Those who complete their medical education in a foreign school must meet defined eligibility requirements to enter accredited programs in graduate medical education in the United States. The Accreditation Council for Graduate Medical Education (ACGME) establishes these requirements based on the following principles: (1) students must have completed their medical education and have met the educational requirements to practice medicine in the school's home country and (2) students must pass an examination administered by the Educational Commission for Foreign Medical Graduates (ECFMG) and recognized by the ACGME to determine the adequacy of their professional knowledge.

ECFMG administers the following medical science examinations for purposes of its medical science examination requirement: the Foreign Medical Graduate Examination in the Medical Sciences (FMGEMS) and the National Board of Medical Examiners (NBME) Part I and Part II. Passing either FMGEMS or Part I and Part II enables graduates of foreign medical schools to meet the medical science examination requirement for ECFMG certification and also enables applicants who are not U.S. citizens to meet the medical science examination requirement for a visa to enter the United States. Such certification is required of both alien and U.S. citizen graduates of foreign medical schools to be eligible to apply for residency or fellowship programs accredited by the ACGME.

FMGEMS is an examination designed cooperatively by the ECFMG and NBME to assess knowledge in the basic medical and clinical sciences. The examination is given in January and July, in morning and afternoon sessions on two successive days, in centers throughout the world. Day 1 of the examination covers the basic medical sciences and Day 2 covers the clinical sciences. Aggregate results of the FMGEMS are available in Table 8-A.

The NBME Part I and Part II examinations have been designed to assess knowledge in the basic medical and clinical sciences respectively. These examinations are administered by the NBME to students/graduates of medical schools in the United States and Canada that are accredited by the Liaison Committee on Medical Education (LCME). Foreign medical students/graduates may take Part I and Part II administered by the ECFMG in selected ECFMG test centers throughout the world. The Part I Basic Medical Science examination is given in June and September; the Part II Clinical Science examination is given in April and September. Results of the Part I and Part II examinations administered by ECFMG in September 1989 are available in Table 8-B.

Before investing time and money in attending a foreign medical school, all of the factors discussed above should be carefully considered. The potential for frustration and future disappointment is great.

Information Sources

Applicants considering other careers are encouraged to consult the following professional associations and references.

1. American Association of Colleges of Pharmacy, 1426 Prince Street, Alexandria, Virginia 22314
2. American Podiatric Medical Association, 9312 Old Georgetown Road, Bethesda, Maryland 20814
3. American Society of Allied Health Professions, Suite 700, 1101 Connecticut Avenue, N.W., Washington, D.C. 20036
4. American Academy of Physician Assistants, 950 North Washington Street, Alexandria, Virginia 22314
5. Association of Schools and Colleges of Optometry, Suite 514, 6110 Executive Boulevard, Rockville, Maryland 20852
6. Association of Schools of Public Health, Suite 404, 1015 15th Street, N.W., Washington, D.C. 20005
7. Association of University Programs in Health Administration, Suite 503, 1911 North Fort Myer Drive, Arlington, Virginia 22209
8. Division of Baccalaureate and Higher Degree Programs, National League for Nursing, 350 Hudson Street, New York, New York 10014

Table 8-A

1989 FMGEMS Examinee Performance

	January 1989				July 1989			
	Day 1		Day 2		Day 1		Day 2	
Examinee*	Number Taking	Percent Passing	Number Taking	Percent Passing	Number Taking	Percent Passing	Number Taking	Percent Passing
All examinees	10,933	22	8,083	39	8,559	31	6,860	45
First-time	3,318	32	3,094	53	3,154	39	2,974	56
Repeat	7,615	18	4,989	31	5,405	26	3,886	36
U.S. citizens								
All examinees	2,056	12	1,376	21	1,009	22	852	30
First-time examinees	220	16	151	19	142	30	92	41
Foreign citizens								
All examinees	8,877	25	6,707	43	7,550	32	6,008	47
First-time examinees	3,098	33	2,943	54	3,012	39	2,882	57

Source: Educational Commission for Foreign Medical Graduates.

*First-time examinees are those examinees who had not previously taken the FMGEMS, or the former one day ECFMG medical science examination, or the Visa Qualifying Examination (VQE). Citizenship is defined as citizenship at the time of entrance into medical school.

Table 8-B

Examinee Performance on NBME Part I and Part II Examinations Administered by ECFMG September 1989

	Part I		Part II	
Examinee*	Number Taking	Percent Passing	Number Taking	Percent Passing
All examinees	3,775	15.9	2,440	30.2
First-time	867	27.3	752	35.1
Repeat	2,908	12.5	1,688	28.1
U.S. Citizens	1,405	9.6	732	21.9
First-time	263	16.3	167	30.5
Repeat	1,142	8.1	565	19.3
Foreign citizens	2,370	19.6	1,708	33.8
First-time	604	32.1	585	36.4
Repeat	1,766	15.3	1,123	32.5

Source: Educational Commission for Foreign Medical Graduates.

*First-time examinees are those examinees who had not previously taken the ECFMG, VQE, or FMGEMS examinations. Citizenship is defined as citizenship at the time of entrance into medical school.

9. *Allied Health Education Directory.* 18th edition. 1990. $29.95, including handling and shipping. Order No. OP-220/10. (Book Order Department—OP-220/10, American Medical Association, P.O. Box 10946, Chicago, Illinois 60610; (1-800) 621-8335; in Illinois, call collect (312) 645-4987)
10. *Allied Health Education Newsletter.* Bimonthly newsletter. $15 one year, $25 two years; foreign subscriptions add $2.50 per year. (American Medical Association, 535 North Dearborn Street, Chicago, Illinois 60610; (1-800) 621-8335, in Illinois, call collect (312) 645-4987)
11. *Twenty-six Allied Health Careers.* $5.00 (American Medical Association, Division of Allied Health Education and Accreditation, 535 North Dearborn Street, Chicago, Illinois 60610)
12. *200 Ways To Put Your Talent To Work in the Health Field.* Single copy free with self-addressed, stamped envelope with $.45 postage. (National Health Council, 350 Fifth Avenue, Suite 1118, New York, New York 10118)

Applicants considering foreign medical schools are encouraged to consult these information sources.

13. *ECFMG Annual Report.* Free. (Educational Commission for Foreign Medical Graduates, 3624 Market Street, Philadelphia, Pennsylvania 19104–2685)
14. *Federal, State, and Private Activities Pertaining to U.S. Graduates of Foreign Medical Schools.* September 27, 1985. Free. Document GAO/HRD-85-112. (Government Accounting Office Documents, P.O. Box 6015, Gaithersburg, Maryland 20877)
15. Fenninger, L. D. Foreign Medical Graduates in the United States: Policies and Attitudes. *Journal of Medical Practice Management,* 1:275-281, April 1986.
16. Iglehart, J. K. Reducing Residency Opportunities for Graduates of Foreign Medical Schools. *New England Journal of Medicine,* 313:831-836, September 26, 1985.
17. Quality of Preparation for the Practice of Medicine in Certain Foreign-Chartered Medical Schools. (Supplement) *Journal of Medical Education,* 56:963-979, November 1981.
18. Stimmel, B., and Graettinger, J. S. Medical Students Trained Abroad and Medical Manpower: Recent Trends and Predictions. *New England Journal of Medicine,* 310:230-235, January 26, 1984.
19. Swanson, A. G. How We Subsidize "Offshore" Medical Schools. *New England Journal of Medicine,* 313:886-888, October 3, 1985.
20. Swanson, A. G. et al. Present Activities of 1989 U.S. Medical Graduates. *Academic Medicine,* 64:630-633, 1989.

Chapter 9

Information for High School Students

The following discussion is for students in junior and senior high school who are considering careers in the medical field and need up-to-date information in order to prepare for college. Information on educational preparation and long-range financial planning is outlined for students, parents, and counselors so that comprehensive planning may begin early.

Careers in Medicine

Medicine is many careers; new opportunities are rapidly developing with each advance in medical knowledge and with each development in the organization of medical services. The physician's responsibilities cover a wide range of functions in the maintenance of health. These include diagnosing disease, supervising the care of patients, prescribing treatment, and participating in improved delivery of health care. Although most physicians provide direct patient care, some M.D. degree recipients concentrate on basic or applied research, become teachers or administrators, or combine various elements of these activities. Often students make the final career decision when near completion of medical school.

Usually the physician selects an area within medicine in which to specialize, such as anesthesiology, community medicine, computer medicine, dermatology, family medicine, internal medicine, obstetrics and gynecology, ophthalmology, otolaryngology, pathology, pediatrics, preventive medicine, psychiatry, radiology, rehabilitative medicine, surgery, and/or various subspecialties of these areas. There continues to be a need for more medical school graduates to enter primary care fields, which include not only family medicine but also general internal medicine, general pediatrics, and some fields of obstetrics-gynecology and psychiatry.

New patterns of practice are emerging. A physician may choose from such varied settings as private office, group practice, a managed care system, clinic, hospital, laboratory, industry, military, university, government, or various combinations of these.

Physicians may be self-employed, in partnership, or salaried. The advantages and disadvantages of being a physician are difficult to enumerate because of the diversity represented within the profession. Benefits can be intellectual, social, emotional, and economic. The demands of a medical career are so great in terms of time, energy, and responsibility for other people's lives that a commitment to continuing service and education is essential.

Educational Preparation

What does it take to be a physician? Briefly, it takes physical, emotional, and intellectual stamina; a good adjustment to any handicaps; the desire to work with and for people; and, particularly, the ability to think logically and to use common sense. It usually involves three or four years of college, four years of medical school, and several years of graduate medical education.

There are several programs beginning after high school graduation that combine the undergraduate college and medical school curricula (see Chapter 12). Some of these programs are the result of special arrangements between a school of medicine and a particular undergraduate college and thus require enrollment in that respective undergraduate institution. For the 1989–90 academic year, those medical schools offering combined programs

Table 9

U.S. Medical Schools Offering Combined College/M.D. Programs Provisionally Admitting Students After Senior Year in High School, 1989-90

Schools offering programs of instruction combined with their undergraduate division:

- Alabama
- Boston
- Brown
- Case Western Reserve
- Howard
- Louisiana State—Shreveport*
- Miami
- Michigan, University of
- Missouri—Columbia
- Missouri—Kansas City
- New York University
- SUNY—Stony Brook†
- Northwestern
- Washington Univ. (St. Louis)
- Wisconsin, University of*

Schools offering programs in collaboration with other undergraduate institutions:

- Albany
- California, Los Angeles (UCLA)
- Hahnemann*
- Jefferson
- UMDNJ—New Jersey Medical*
- UMDNJ —Robert Wood Johnson†
- Ohio, Northeastern
- Pennsylvania, Medical College of
- Ponce
- SUNY-Brooklyn
- Wisconsin, Medical College of

Sources: Liaison Committee on Medical Education 1988-89 Questionnaire; *1989-90 AAMC Curriculum Directory.*

*Program acceptance limited to state residents.

†Students are selected at the end of their sophomore year in college.

accepting high school seniors into the M.D. program on a provisional basis are indicated in Table 9. It should be noted that several of the programs are limited to residents of the state where the medical school is located. Students should contact the schools directly for further information.

The vast majority of recent M.D. graduates have pursued several years of postgraduate education in order to seek certification in the area of medicine in which they have chosen to specialize.

Perhaps the best educational advice that can be given to a high school student who wishes to become a physician is to develop disciplined study skills and apply them to a college preparatory course. To qualify for admission to an accredited college—whether in preparation for medicine or for other health careers—it is usually recommended that students complete courses in the natural and physical sciences, English, foreign language, social studies, and mathematics. Most colleges provide counseling for students in planning their course of study.

The basic requirements listed above can be supplemented in many high schools with electives that broaden intellectual interests. The development of communication skills, including the ability to read with speed and comprehension, is essential to success in medical school and medical practice. Medical school admission committees do not usually request a high school transcript, but they do evaluate knowledge of scientific principles and broad intellectual abilities, social adjustment, and personality factors deemed necessary to meet the rigorous demands of medical study and practice. The high school years are of great importance in the early development of all of these capacities and qualities.

Able high school students are encouraged to investigate nontraditional opportunities for educational development that may be available to them. For instance, advanced placement work (college credit for college level courses taken in high school) may provide additional time to pursue other areas or to study more upper level courses in college than might otherwise be available. Some students are also able to earn college credit through the College Level Examination Program (CLEP) for knowledge acquired outside the classroom. Further information is available from:

CLEP
CN 6600
Princeton, New Jersey 08541-6600

High school summer vacations can provide opportunities to advance education in varying ways. Special study programs, travel, and a summer job that involves learning to assume responsibility can provide valuable experiences that may be of interest to medical school admission committees.

Those interested in medical careers can also use paid and/or volunteer jobs to explore a great variety of interests in the health fields.

Other Health Careers

Medical school admission is competitive; thus, some qualified applicants are not admitted. Because of the possibility of not being admitted and in order to clearly define career interests, it is advisable during the high school and college years to investigate such health-related careers as those mentioned at the beginning of Chapter 8. Many alternative health career educational programs ordinarily begin after the sophomore year of college.

Choosing an Undergraduate College

There are hundreds of colleges and universities in the United States where a student can receive an excellent education and fulfill the specific subject requirements for entrance to medical school. There is no such thing as an approved list of "premedical" schools, since the courses offered at any accredited college are generally considered to be of satisfactory academic quality. *Accredited Institutions of Postsecondary Education* (published by the American Council on Education) is an annual directory listing all undergraduate schools in the United States that are accredited by the nation's six regional associations of schools and colleges. Another good basic reference is *The College Blue Book* (Macmillan Publishing Co., Inc.). These directories are available in many libraries.

In the opinion of most medical school admission officers, a student should select a college not merely as a stepping stone to a professional career but rather because of the college's general educational opportunities as they relate to the student's personal qualities and needs.

The following questions, suggested by medical school admission officers, may prove helpful to students in analyzing their choice of colleges:

1. Does the college have a health professions advisory program?
2. Does the college offer the required courses I will need for medical school? Does it have strong science departments with adequate laboratory facilities? Does it have a reputation for high academic standards and good faculty?
3. Does the college offer educational opportunities in the liberal arts as opposed to the purely technical? Will I have the chance to develop intellectual initiative and critical thinking above and beyond memorizing facts?
4. Is the college approved by the regional accrediting agency?
5. Regardless of size, does the college consistently graduate several students each year who are accepted to medical school? As a rule, students from colleges that provide several medical students per year are more successful in medical school than students from colleges that provide only an occasional medical student.
6. Do I think the college will appeal to me personally and socially as well as intellectually? Will I be happier in a small school, or would I prefer the atmosphere of a larger university, since the size of the undergraduate institution can affect the amount of individual attention I receive and the diversity of the faculty and the student body with which I interact?

There are many sources of information and advice for students who are choosing the colleges to which they will apply. Some of these are listed below, but students and their families must make the final selection.

High School Counselors. Some high schools have much more elaborate counseling programs than others, but most provide some opportunity for students to seek advice about college planning. Often individual teachers, the principal, and the librarian can be helpful.

Individual Colleges. Through correspondence with different schools, discussion with enrolled students, and campus visits, a student can obtain valuable firsthand information.

Medical Schools. Upon request, medical schools will provide high school students and/or their counselors with catalogs and other appropriate references to assist in their educational planning.

Accrediting Agencies. The following regional associations accredit undergraduate schools and colleges in the United States:

1. Middle States Association of Colleges and Secondary Schools
2. New England Association of Colleges and Secondary Schools
3. North Central Association of Colleges and Secondary Schools
4. Northwest Association of Secondary and Higher Schools
5. Southern Association of Colleges and Schools
6. Western Association of Schools and Colleges

Financial Planning

In the United States, much attention is currently being directed toward the rising costs of acquiring a higher education and the need for more financial assistance for students. Aid is available, but its award is generally based on need. Parents of students seeking assistance through college and medical school will almost certainly be asked to file a confidential report about their financial assets and liabilities.

High school is not too early to start carefully estimating expenses for undergraduate college and medical school and analyzing the actual and potential income available from family resources, student earnings, and loans from a variety of national, regional, state, local, and institutional sources. Nonrepayable awards, such as scholarships, are sometimes available on a competitive basis for students with academic promise.

The majority of government grants for medical students require repayment by service in specific medical fields (for example, primary care) and/or in geographical areas of greatest need for medical care (for example, rural or inner-city) or in one of the military services.

Colleges differ considerably with respect to tuition, room and board charges, and the kinds and amounts of financial assistance available for their students. During the process of gathering information about various colleges, students should be sure to ask for financial information and advice from each institution. Most college catalogs list approximate expenses and contain information that can help students with their financial planning.

The student just starting college should recognize that preparation for a medical career is a lengthy and expensive undertaking. Adequate long-range planning, however, should make it possible to meet educational costs from the many resources available. These include family assets and income, gifts, scholarships, grants-in-aid, fellowships, prizes, awards, stipends, loans, summer employment, and part-time employment during the school year. The undergraduate school itself is usually the best source of information and advice, since many financial aid programs are administered by the colleges.

Federal support is available for both undergraduate and medical education, but federal loan programs vary in the size of the loans granted and their ceiling amounts. Undergraduate students who are planning to utilize federal assistance should be aware of those loan programs that will best offset the cost of each phase of their education. For details on specific loan programs, see Chapter 6. *If possible, undergraduate students with significant financial need are advised to utilize Perkins Loan funds.* Students should be aware, however, that the availability of funds at their undergraduate institution may prohibit this strategy. Upon acceptance to medical school, the students then should apply for Stafford Student Loan Program assistance.

Work programs during the academic year may sometimes be arranged through college or university placement offices. Since academic performance is an important indicator of an individual's ability to complete the course work in medical school, students are cautioned against taking on a work load which could jeopardize the level of performance in their undergraduate course work. However, various part-time employment opportunities exist, and some colleges include such jobs as part of the financial aid program. Some students participate in the federally established College Work-Study Program for individuals with demonstrated financial need. A medical school admission committee is likely to be impressed favorably by a student who acquires a broadly based undergraduate education and attains a high level of academic performance with a full schedule while engaged in an appropriate amount of part-time employment.

In view of national economic trends, it is increasingly important for many prospective medical students to consider the possibility of meeting some of the costs of medical education through funds earned and saved during high school and college. A savings account started early during the high school years can develop into a valuable resource. Prospective medical school applicants should refer to other sections of this book which outline the cost of medical education in the various medical schools (Chapter 6 and the individual school entries in chapters 10 and 12) and then develop a long-range plan for financing their higher education.

The federal government supports several different financial aid programs. Students enrolled or accepted for enrollment in an approved postsecondary educational institution may be eligible for assistance under these programs. Since federal programs may change from year to year as new legislation is enacted, the financial aid officer at each college is the best source of information about the current federal programs in which that college is participating. Major federal programs that are administered through the college's Office of Financial Aid have, in recent years, included the following: the Pell Grant Program, the Supplemental Educational Opportunity Grant (SEOG) Program, the Perkins Loan Program, the Stafford Student Loan Program, and the College Work-Study (CWS) Program. Further information concerning these five programs is contained in *The Student Guide: Five Federal Financial Aid Programs, '90–'91.* (See reference 7.)

Applications for financial assistance, especially scholarships, are made while the student is still in high school. High school counselors should be able to provide current information about such opportunities as the National Honor Society Scholarship Program, National Merit Scholarship Program, and the Science Talent Search Program.

The foregoing comments should provide able and resourceful students with some ideas about the many ways of financing the undergraduate college phase of their education. Careful planning can minimize the stress of financial worry at a time when the student's intellectual energy should be concentrated on scholastic performance.

Information Sources

For further information on educational and financial planning, the following may be of interest.

1. Cass, J., and Birnbaum, M. *Comparative Guide to American Colleges.* 14th edition. 1989. $17.95 paperback, $35.00 hardcover. (Harper and Row Publishers, Inc., Publications Department, Keystone Industrial Park, Scranton, Pennsylvania 18512)
2. Keeslar, O. *Financial Aids for Higher Education.* 1989. 13th edition. $45.00, subject to change. (William C. Brown Company, 2460 Kerper Boulevard, Dubuque, Iowa 52001)
3. *Meeting College Costs.* Revised annually in September. $7.00 per 50 copies. Available only in packages of 50. Item #236266. California and Pennsylvania residents add six percent sales tax. (College Board Publications, Box 886, New York, New York 10101-0886)
4. *Need a Lift? Guide to Educational Opportunities, Careers, Loans, Scholarships, Work Study Programs.* $2.00 prepaid. ("Need a Lift?," P.O. Box 1050, Indianapolis, Indiana 46206)
5. *The College Cost Book, 1989–90.* $13.95. Item #003381. California and Pennsylvania residents add six percent sales tax. (College Board Publications, Box 886, New York, New York 10101-0886)
6. *The College Handbook, 1989–90.* $17.95. Item #003365. California and Pennsylvania residents add six percent sales tax. (College Board Publications, Box 886, New York, New York 10101-0886)

7. *The Student Guide: Five Federal Financial Aid Programs, '90-'91.* Department of Education. Free. (Federal Student Aid Programs, Department M-11, Pueblo, Colorado 81009-0015)
8. *200 Ways To Put Your Talent To Work in the Health Field.* Single copy free with self-addressed, stamped envelope with $.45 postage. (National Health Council, 350 Fifth Avenue, Suite 1118, New York, New York 10118)
9. *You... the Doctor: Challenges and Opportunities in the Medical Profession.* 1987. $2.50. Order No. OP-416. (Order Department, American Medical Association, P.O. Box 10946, Chicago, Illinois 60610)

Chapter 10

Information About U.S. Medical Schools
Accredited by the LCME

Information about individual medical schools is given in the following two-page entries for 123 schools in the United States and three schools in Puerto Rico that will be considering applications for fall 1991 entering classes. The schools presented here are fully accredited as of fall 1989 by the Liaison Committee on Medical Education (LCME), which is sponsored by the Association of American Medical Colleges (AAMC) and the American Medical Association (AMA).

The University of Minnesota—Duluth School of Medicine has a two-year basic medical science program; students transfer to the University of Minnesota Medical School—Minneapolis to complete their training.

Individual school entries provide the tuition and student fees for a 1989-90 first-year student.

Each school entry provides statistics on the number of applicants, interviewed applicants, and new entrants (students entering medical school for the first time, excluding repeaters and reentrants) to the 1989-90 first-year class. These statistics are presented by residence status—in-state and out-of-state. Foreign nationals who do not have permanent resident status in the United States are included in the out-of-state figures.

Abbreviations

Listed below are the abbreviations used in the school entries in this chapter.

AMCAS—American Medical College Application Service

CLEP—College Level Examination Program

GAPSFAS—Graduate and Professional School Financial Aid Service

GPA—Grade-point average

MCAT—Medical College Admission Test
  B—Biology
  C—Chemistry
  P—Physics
  SP—Science Problems
  SA:Q—Skills Analysis: Quantitative
  SA:R—Skills Analysis: Reading

NBME—National Board of Medical Examiners

WICHE—Western Interstate Commission for Higher Education

University of Alabama School of Medicine

Dr. James A. Pittman, Jr., Dean
Dr. George S. Hand, Jr., Associate Director of Medical Student Services for Admissions
J. Ron Elmore, Assistant Director of Medical Student Services for Financial Aid

Address inquiries to:
Office of Medical Student Services/Admissions
University of Alabama
School of Medicine
Box 100-UAB Station
Birmingham, Alabama 35294
(205) 934-2330

General Information. The School of Medicine was founded in Mobile in 1859, shifted to the main campus of the University of Alabama in Tuscaloosa in 1920, and relocated in Birmingham in 1945. The University of Alabama School of Medicine, composed of the medical branches in Tuscaloosa, Birmingham, and Huntsville, was created in 1969. Birmingham is the main campus, and the School of Primary Medical Care in Huntsville and the College of Community Health Sciences in Tuscaloosa are branch campuses.

Curriculum. The academic program consists of a four-year sequence which provides training in basic science and clinical areas. It emphasizes the fundamentals that underlie all medical practice. Consideration is given also to the emotional, cultural, and social characteristics of patients and to the need for adapting medical care to meet their needs. Initially, basic human biology, including anatomy, physiology, biochemistry, and microbiology, is emphasized. This is followed, in the second year, by a study of disease processes and their therapy in pharmacology and pathology. The basic science years are completed by an integrative study of organ-system disorders. Also, instruction is given in physical diagnosis, in interviewing skills, and in the psychosocial aspects of illness and health. All students are required to take and pass Part I of the NBME examinations at the end of the second year.

The third year and a part of the fourth year consist of required rotations through the clinical science disciplines (medicine, surgery, pediatrics, obstetrics and gynecology, and psychiatry). This involves participation, under faculty supervision, in the care of patients both in the hospital and in ambulatory settings. The remainder of the fourth year is an elective or individualized experience program. All students are required to take and pass Part II of the NBME examinations prior to graduation.

All entering students study on the Birmingham campus for the two basic science years. They then complete years three and four on the clinical campus (Birmingham, Tuscaloosa, or Huntsville) to which they were assigned at the time of admission. Individual preferences, in this assignment, are honored insofar as possible. Students are encouraged to visit each of the campuses before expressing their preference in writing. The assignment, once made, is considered final, but electives may be taken in a variety of locations.

An M.D./Ph.D. program is available for highly qualified students who desire a career in academic medicine.

To facilitate their entry into the School of Medicine, outstanding high school seniors who demonstrate strong motivation and maturity for the study of medicine and have earned a 3.5 GPA or better, an American College Test (ACT) score of 30 or higher, and/or a Scholastic Aptitude Test (SAT) score of 1,300 or higher may apply for the Early Medical School Acceptance Program (EMSAP). Students accepted into EMSAP will enter the University of Alabama at Birmingham (UAB) and be provided with medically related experiences during their undergraduate years. In most cases, EMSAP students will be expected to complete four years of undergraduate study at UAB before beginning their medical school studies. EMSAP sudents will not be required to take the MCAT.

Requirements for Entrance. At least 90 semester hours from an accredited institution and the MCAT are required. The MCAT should be taken during the spring before making application in early summer. A program leading to the bachelor's degree is highly recommended. Suitable major areas include the social sciences, humanities, and biological and physical sciences. It is strongly recommended that applicants also have some course work in the behavioral sciences. College work must include:

	Sem. hrs.
General biology or zoology	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
College mathematics	6
Must include a basic course in calculus.	
English (composition and literature)	6

Selection Factors. Required interviews are arranged at the discretion of the Admission Committee. The scholastic record (GPA) and the MCAT results are factors that strongly influence the selection of applicants for interviews. Alabama residents are given strong preference. Nonresident applicants must present superior academic credentials (GPA of 3.5 or higher and MCAT scores which average 10) and must demonstrate evidence of nonacademic success and commitment. Race, religion, national origin, age, handicap, and sex are not factors in consideration for admission.

Selection is based on scholastic record, recommendations from the college faculty, personal interviews, scores on the MCAT, and evidence of professional promise. Alabama residents from rural areas and from minority groups are especially encouraged to apply.

Of the 650 nonresident applicants for the 1989 entering class, 74 (11.4 percent) were accepted. A total of 336 state residents applied and 172 (51.2 percent) were accepted. Thus, acceptances were issued to 246 (24.9 percent) of 986 applicants to obtain a class of 160 entering students (including 6 M.D./Ph.D. students). Characteristics of the class were: *mean GPA*, 3.46; *sex*, acceptance rate of 26.6 percent of male applicants and 21.7 percent of female applicants; *undergraduate majors*, 31.9 percent biology, 10 percent chemistry, 6.9 percent biochemistry, 4.3 percent mathematics, 4.3 percent in microbiology and the remainder in various fields including nursing, English, engineering, physics, and psychology.

Financial Aid. About 67 percent of our students receive financial aid. Available loan funds are disbursed primarily on the basis of demonstrated financial need. State scholarships/loans are available in limited numbers to Alabama residents who can demonstrate economic need. Other scholarships are awarded on a merit basis.

Information for Minorities. The Admission Committee attempts to identify and provide academic counseling and information to minority students early in their college careers to facilitate application processes. The School of Medicine will consider waiver of application fees for disadvantaged students. An orientation program is provided for underrepresented minority students who matriculate.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $25
Oldest MCAT scores considered: 1988
  Does have Early Decision Program (EDP)
  For Alabama residents only
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $50, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 155 plus 6 M.D./Ph.D. students (14 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $3,903
  Nonresident: $12,615
Student fees: $1,511

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	336	650	986
Applicants Interviewed	267	121	388
New Entrants*	137	23	160

*100% took the MCAT; 98% had baccalaureate degrees.

University of South Alabama College of Medicine

Dr. Charles M. Baugh, Dean
Dr. Ture Schoultz, Associate Dean
Martha Otts Benton, Director of Admissions

Address inquiries to:
Office of Admissions
Room 2015, Medical Sciences Building
University of South Alabama
College of Medicine
Mobile, Alabama 36688
(205) 460-7176

General Information. The College of Medicine of the University of South Alabama was approved by the Board of Trustees of the university in 1967; the legislature of the state of Alabama passed a resolution authorizing the college on August 19, 1967. The college admitted a charter class of 25 students in January 1973 and a full class of 64 students in September 1973. No increase or decrease in the number of entering students is planned. The basic medical sciences are housed on the university campus in a building which was completed in March 1974. Clinical teaching is conducted at the University of South Alabama Medical Center.

Curriculum. The first year is devoted to the basic sciences of anatomy, physiology, biochemistry, neuroanatomy, and embryology. However, opportunity for early introduction to clinical problems is afforded by courses such as Correlation conferences and Medical Practice and Society. The second year includes pathology, physical diagnosis, microbiology/immunology, pharmacology, and behavioral science. Public health/epidemiology and medical genetics round out the second-year curriculum. All students are required to take and pass Part I of the NBME examinations at the end of the second year. The third year is composed of clinical clerkships in medicine, surgery, pediatrics, psychiatry, obstetrics/gynecology, and family practice. The fourth year is composed of 12 rotations of four weeks each. The student is required to select one rotation each in neurosciences, surgical subspecialties, ambulatory care, primary care subspecialty, acting internship, and an inhouse elective. Three of the rotations may be used for approved extramural experiences. Students are required to take and pass Part II of the NBME examinations in September of the fourth year. A numerical grading system is used with the exception of the fourth year, during which a pass/fail system is used.

The philosophy of the institution is to utilize all of the existing resources, which provide opportunities for almost all of the experiences in clinical medicine. After acquiring a sound basis in scientific medicine, students then have the opportunity to select multiple tracks of study.

A combined M.D.-Ph.D. program in basic medical sciences is also offered.

Requirements for Entrance. The MCAT and three years of college are required; the baccalaureate degree is highly desirable. Each applicant must have at least 90 semester hours of acceptable credit from an accredited undergraduate institution. Required courses are:

	Sem. hrs.
General biology (with lab)	8
General chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
Humanities	6
English composition and/or literature	8
College mathematics	8

Calculus is highly recommended.

The University of South Alabama College of Medicine does not accept pass/fail grades for required science courses, except in the rare instance in which an applicant's college assigns only pass/fail grades.

Applicants are strongly urged to take the MCAT in the spring of the year of application and to have their basic science requirements completed at the time of application. Required course work in process or fall MCAT scores delay the processing of an application.

Selection Factors. The Committee on Admissions will consider seriously all candidates whose undergraduate academic work and scores on the MCAT indicate that they will be able to handle the rigorous curriculum of the College of Medicine. However, additional consideration will be given to more than scholastic achievement alone. Applicants will be considered from the standpoint of their potential to become conscientious and capable physicians. The University of South Alabama provides equal educational opportunities and is open to all qualified students without regard to race, creed, national origin, sex, or handicap with respect to all of its programs and activities. Because the college is state-supported, preference is shown to Alabama residents; however, residents of the Mississippi Gulf Coast and Florida Panhandle qualify for in-state preference and tuition.

Disadvantaged, rural, and minority residents of Alabama are strongly encouraged to apply.

The application process consists of two stages: the preliminary AMCAS application and the final application sent when requested by the Committee on Admissions. This latter application requires recommendations, a photograph, and a $25 fee. After review of the final application, the committee will select those applicants to be invited to the campus for interviews. Fee waivers, based solely on economic need, are granted when documented.

Financial Aid. Limited funds are available for loans and are awarded on basis of need. Scholarships are also available to entering students and are awarded based on superior academic performance.

A limited number of state scholarships/ loans are available to Alabama residents who can demonstrate economic need. After graduation repayment may be made by cash or by the practice of medicine in certain areas of the state for the number of years stipulated by law.

The Medical Student Summer Research Program is available to entering first-year students and rising second-year students. The participants are paid a stipend and no previous research experience is necessary. Part-time employment is available; however, students are discouraged from accepting employment during academic periods.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $25
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  For Alabama residents only
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $50, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991, if requested in writing
Estimated number of new entrants: 64 (4 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $5,280
  Nonresident: $10,560

Student fees: $1,049

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	281	321	609
Applicants Interviewed	187	56	243
New Entrants*	58	9	67

*100% took the MCAT; 97% had baccalaureate degrees.

University of Arizona
College of Medicine

Dr. James E. Dalen, Vice Provost for Medical Affairs and Dean
Dr. Shirley Nickols Fahey, Associate Dean for Admissions

Address inquiries to:
Admissions Office
University of Arizona
College of Medicine
Tucson, Arizona 85724
(602) 626-6214

General Information. The College of Medicine enrolled its first class of students in 1967. As a professional and graduate college of the University of Arizona located adjacent to the main campus, its programs provide education and training for both the M.D. and Ph.D. degrees.

The University of Arizona Health Sciences Center complex consists of five interconnected buildings, and adjoining structures, on a 30-acre site north of the main campus. These consist of the Basic Sciences Building, the Clinical Sciences Building, Outpatient Clinics, University Medical Center, and the Arizona Cancer Center, all interconnected. Planned for or under construction are the Life Sciences Building, a Children's Research Center, a Heart Center, a parking structure, and additional office and laboratory space. The colleges of nursing and pharmacy are located south of the Basic Sciences Building. A student wing of the Basic Sciences Building houses the multidisciplinary laboratories, lecture rooms, conference rooms, student lounge, and support facilities.

Curriculum. The overall purpose of the educational program is to provide students with the capacity to learn medicine for the rest of their professional careers. This is accomplished by giving them the opportunity to learn what is currently known and unknown, with study habits which permit continuous acquisition of new knowledge and modification of formerly acquired information, with skills to conduct patient care activities, and with professional attitudes consonant with their charge to care for those persons for whom they provide preventive and curative advice and treatment.

Biologic, cultural, psychosocial, economic, and sociologic concepts and data are provided in the core curriculum. Increasing emphasis is placed on problem-solving ability, beginning with initial instruction and carried through to graduation. Excellence in performance is encouraged and facilitated. Awareness of the milieu in which medicine is practiced is also encouraged. The core curriculum comprises three years of required studies and one year of elective rotations. The learning environment encompasses lectures, small-group instruction, independent study, clincial clerkships, practice in physical diagnosis, computer-based instruction, and a variety of other modes for the learner. Students learn in the classroom, conference room, laboratory, clinic and physician's office, bed units of hospitals, special sites for diagnostic and therapeutic maneuvers, University Medical Center, and a variety of community inpatient and outpatient settings. Upon graduation the physician is equipped to continue postgraduate education in general or specialty practice, teaching, or research. A combined M.D.-Ph.D. program of study is also offered.

Requirements for Entrance. All applicants must be residents of Arizona or WICHE certified and funded residents of Alaska, Montana, or Wyoming. The MCAT and a minimum of three years of college are required. Each applicant must successfully complete at least 90 semester hours (135 quarter hours) at an accredited college or university, including 30 semester hours of upper division courses, although a baccalaureate degree is preferred. Applicants educated outside the United States must have completed at least two full years of study in an accredited college or university in the United States or Canada prior to application. The following specific courses are required:

	Sem./Qtr.
General biology or zoology	2/3
General chemistry	2/3
Organic chemistry	2/3
Physics	2/3
English	2/3

Applicants are strongly urged to take the MCAT in the spring of the year of application and to have their basic requirements completed at the time of application. All required courses must be completed by the spring semester prior to matriculation. Applicants are encouraged to take the required science courses that include laboratory experiences. No preference is given to any particular kind of undergraduate academic major, although applicants are encouraged to have a broad social science and/or humanities background.

Selection Factors. Applicants are chosen on the basis of their ability, motivation, integrity, emotional maturity, interpersonal skills, and other personal characteristics which the Admissions Committee regards as important for prospective medical students and the successful practice of medicine. In evaluating candidates, attention is given to the entire academic record, MCAT scores, college preprofessional committee evaluations, other letters of recommendation, and personal interviews. Also considered is breadth of the undergraduate education, whether in the humanities, social sciences, or natural sciences. All applicants will be interviewed by members of the faculty at the College of Medicine. Acceptance is dependent on far more than academic achievement. Each applicant is considered from the standpoint of the applicant's potential as a physician.

Only residents of Arizona and highly qualified applicants who are WICHE certified and funded residents of western states without medical schools should apply. Applicants from states other than these will not be considered.

Accepted students for the 1989 entering class had the following characteristics: *mean GPA*, 3.46; *sex*, 51 percent women; *residence*, 96 percent from Arizona; *overall acceptance rate*, 52 percent of those seriously considered received acceptances, and 117 acceptances were offered out of 224 applicants considered.

Disadvantaged, rural, and minority residents of Arizona are strongly encouraged to apply. The College of Medicine does not discriminate on the basis of sex, age, race, creed, national origin, or handicap in its admission policies.

Financial Aid. Federal and local scholarships and loans are available to students with financial need. Eighty-two percent of the students are receiving financial assistance. All determinations of need are made after an applicant is accepted for enrollment.

Information for Minorities. The College of Medicine has an active program dedicated to the recruitment, admission, education, and graduation of an increased number of individuals from ethnic minority groups. Faculty members participate in all aspects of the program.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee: None
Oldest MCAT scores considered: 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Jan. 15, 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class: None
Estimated number of new entrants: 88
Starting date: July 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees
  Resident: $5,654
  Nonresident: Not applicable

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	229	291	520
Applicants Interviewed	213	11*	224
New Entrants†	82	3*	85‡

*Certified WICHE applicants from Alaska, Montana, and Wyoming.
†100% took the MCAT and had baccalaureate degrees.
‡One new entrant went into the second-year class.

University of Arkansas College of Medicine

Dr. I. Dodd Wilson, Dean
Dr. Robert E. Bowling, Associate Dean for Admissions
Tom G. South, Director of Financial Aid

Address inquiries to:
Office of Student Admissions, Slot 551
University of Arkansas
College of Medicine
4301 West Markham Street
Little Rock, Arkansas 72205
(501) 686-5354

General Information. The University of Arkansas College of Medicine was established in 1879 and in 1957 occupied the present facilities along with the colleges of nursing, pharmacy, health-related professions, and the 400-bed University Hospital. The T. H. Barton Institute for Medical Research, a nine-story wing, was added in 1960. A building for expanded instructional and library facilities was completed in 1978, and an ambulatory care center opened in 1980. A new family and community medicine clinic building was dedicated in 1986. The Arkansas Cancer Research and Treatment Center opened in 1989. A student union-residence building has accommodations for both single and married students. Clinical instruction is carried out in the University Hospital, two Veterans Administration hospitals (a 500-bed general hospital and a 2,000-bed neuropsychiatric hospital), the State Hospital for Nervous and Mental Diseases, and the Arkansas Children's Hospital. Certain senior electives are based at St. Vincent Infirmary, Baptist Medical Center, and community hospitals in health education centers in several Arkansas cities.

Curriculum. Along with the standard courses in anatomy, biochemistry, and physiology, the first year includes a program to introduce the student to clinical contacts and concepts. This is accomplished with formal lectures in medico-socioeconomic topics, small-group discussions, and faculty-supervised interviews with patients.

The duration of the second-year program is eight months; the study consists of a standard but shortened curriculum.

The third year is a full 48 weeks with rotation through the major clinical services. This expanded clinical year provides substantial preparation for the predominantly elective fourth year, which consists of a minimum of 36 weeks to a maximum of 48 weeks of courses selected with the assistance of a faculty adviser. On-and off-campus electives are available to round out preparation for each student's career goals. The traditional grading system (A, B, C, D, F) is used throughout. Opportunities are provided for students to engage in research activities and to pursue graduate courses leading to the M.S. and Ph.D. degrees.

Requirements for Entrance. The MCAT and at least 90 semester hours of accredited college work are required; a baccalaureate degree is strongly recommended.

Although no specific college courses are required, an applicant should present an adequate background in biology, chemistry, and physics. Courses selected from the following are recommended as preparation for the study of medicine.

Biology: General biology, zoology or botany, genetics, or embryology.
Chemistry: General chemistry, quantitative analysis, and organic chemistry.
Physics and mathematics: General physics, statistics, or calculus.
Behavioral sciences: General or special psychology, sociology, ethnology, human ecology, or physical or cultural anthropology.
Humanities: English composition, world literature, logic, world history, or liberal arts.

No particular undergraduate field is given preference in the selection process; students representing a variety of backgrounds are sought. Applicants are encouraged to follow their own interests in selecting undergraduate majors and other college courses.

Applicants must have taken the MCAT prior to the November 15 application deadline.

Selection Factors. Selection is based on scholastic attainment, performance on the MCAT, personal interviews with members of the faculty, and recommendations, particularly evaluations by college preprofessional advisory committees. Selection is made without regard to race, sex, creed, national origin, or handicap. Unsuccessful applicants may reapply without prejudice.

Accepted applicants for the 1989 entering class had the following profile: *mean GPA,* 3.5 (86 percent above 3.0); *sex,* 32 percent women; *residence,* four nonresident applicants were admitted; *undergraduate major,* 85 percent in science disciplines.

Although applications are accepted from students who are not residents of the state of Arkansas, preference must be given to qualified resident applicants. Nonresidents who do not have a GPA of at least 3.5 (based on a 4.0 scale) and scores of 9 or above on each section of the MCAT should not apply.

Financial Aid. To date, adequate financial aid has been provided to all students in need of assistance to complete their academic programs. Such assistance comes in the form of refundable loans and grant-in-aid funds provided by federal, state, school, and private sources. Some form of aid is now being received by approximately 70 percent of the students. The financial status of applicants is not a factor in selection for admission.

While the University of Arkansas has no policy regarding student employment, students should not expect to be employed to the detriment of academic performance. In appropriate cases, students are assisted in obtaining employment at the university and elsewhere.

Information for Minorities. Students from minority groups are encouraged to apply for admission, and their applications will receive every consideration given to other applicants. No special remedial programs are available prior to enrollment, but deceleration during the first year is possible in certain cases. Every effort is made by the faculty to assist all students academically as needs are individually defined. Nonrepayable financial assistance is provided, within program limits, to each student with demonstrated need.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee after screening: $10
Oldest MCAT scores considered: 1986
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Dec. 15, 1990
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 140
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $5,720
  Nonresident: $11,440

Student fees: $350

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	245	193	438
Applicants Interviewed	245	12	257
New Entrants*	136	4	140

*100% took the MCAT; 80% had baccalaureate degrees.

University of California, Davis School of Medicine

Dr. Hibbard E. Williams, Dean
Dr. Ernest L. Lewis, Associate Dean for Student Affairs and Chair, Admissions Committee
Betty Hinman, Admissions Officer

Address inquiries to:
Chair, Admissions Committee
Admissions Office
University of California, Davis
School of Medicine
Davis, California 95616
(916) 752-2717

General Information. The School of Medicine, University of California, Davis, admitted its first class in 1968. The school provides its students with a foundation of medical knowledge upon which they may proceed to careers in primary care, specialty practice, research, public health, or administration.

Curriculum. The curriculum was revised in 1980 to provide a balanced blend of basic and clinical sciences. Basic science courses are emphasized during the first year and continue into the second. Early clinical exposure is provided during the first year through a continuing course entitled The Diagnostic Process. Knowledge of essential concepts and techniques is emphasized in the first year and is amplified in the second year, utilizing selected clinical problems, both functional and organic. The third and fourth years provide continued application of the principles of basic science to solving clinical problems in the setting of clinical clerkships and electives. Many courses are departmental; others are interdisciplinary, being planned and presented by course committees composed of members from a variety of academic departments and disciplines. Beginning with the first year, students are given the opportunity to take elective courses to broaden their knowledge of the health sciences.

The Davis campus affords opportunities for interaction with other schools, colleges, departments, and laboratories of the university. Research, teaching, and service are interrelated, and the biological and allied sciences are emphasized. Close relationships are enjoyed with the School of Veterinary Medicine, the California Primate Research Center, the Laboratory for Energy Related Health Research, and the Food Protection and Toxicology Center.

First-and second-year students attend basic science classes in the Medical Sciences I complex in Davis. Very early in the student's training, use is made of the clinical facilities of the 407-bed University of California, Davis, Medical Center, Sacramento. The Medical Center offers a full range of inpatient services, diagnostic services, an ambulatory care program with over 100 specialty clinics, and 24-hour major emergency medical service.

A combined program for both the M.D. and Ph.D. degrees is available to qualified students.

Requirements for Entrance. The MCAT (taken no later than the fall prior to the year of anticipated matriculation) and three years (90 semester hours or 135 quarter hours) in an approved college or university in the United States or Canada are required. A course of study leading to a bachelor's degree is recommended.

The school believes a medical student should have a sound background in the humanities and behavioral and social sciences as well as in the physical and biological sciences. Premedical requirements must be completed by June of the year of desired entry. The following college level courses are required:

	Years
English	1
Biological sciences (with lab)	1
General chemistry (with lab)	1
Organic chemistry (with lab)	1
If two or more undergraduate courses are offered, the more rigorous option is recommended.	
Physics	1
Mathematics	
Course work sufficient to satisfy prerequisites for integral calculus is required.	

CLEP credit is not acceptable for prerequisite courses.

Selection Factors. The School of Medicine selects students for admission with a view to meeting the needs of society, of the medical profession, and of the school. Because the educational experience is enhanced by the interaction of students from various backgrounds, the school desires diversity in its student body. This is reflected in the school's commitment to expand opportunities in medical education for individuals from groups underrepresented in medicine as the result of social discrimination and to increase the number of physicians practicing in underserved areas. Therefore, the Admissions Committee, which is composed of individuals from a variety of cultural backgrounds and which is representative of a broad spectrum of medical sciences, evaluates applicants in terms of all relevant factors. These include academic credentials, with due regard to how they may have been affected by disadvantage experienced by the applicant; such personal traits as character and motivation; experience in the health sciences and/or the community; career objectives; and the ability of the individual to make a positive contribution to society, the profession, and the school.

Factors that will be considered are the applicant's scholastic record, MCAT performance, and reports of teachers and advisers regarding intellectual capacity, motivation, and emotional stability. Characteristics which may make such applicants particularly attractive to the Admissions Committee are outstanding nonacademic achievements, capability for independent study, maturity, and other factors which suggest good academic potential.

A personal interview will normally be required of each applicant who is accepted. Regional interviews are not normally available. Primary consideration for admission will be given to students who are legal residents of California.

Financial Aid. A complete range of financial aid is available to medical students at the University of California, Davis: scholarships, fellowships, grants, and a variety of loans. The majority of financial aid is awarded based on demonstrated need. However, all accepted students are considered for university-awarded, merit-based scholarships.

Historically, students at the School of Medicine have been able to receive full financial aid funding of their calculated financial need. Due to the school's low fees and high aid availability only 18 students out of the entire four classes had to borrow expensive Health Education Assistance Loans during the 1989-90 school year.

Financial aid applications are mailed in December and January to all interviewed applicants. Early application for aid is strongly recommended. Questions should be directed to the Financial Aid Office at (916) 752-6618.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $40
Oldest MCAT scores considered: 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 93
Starting date: Sept. 1991

Tuition and Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: None
  Nonresident: $5,799
Academic fees: $1,802

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	2,490	466	2,956
Applicants Interviewed	*	*	732
New Entrants†	89	4	93

*Data not available.

†100% took the MCAT; 98% had baccalaureate degrees.

University of California, Irvine College of Medicine

Dr. Walter L. Henry, Vice Chancellor of Health Sciences and Dean, College of Medicine
Dr. J. Hutchison Williams, Associate Dean, Student and Curricular Affairs
Elizabeth Parker, Director of Admissions

Address inquiries to:
Office of Admissions
E112-Medical Sciences Building
UCI-College of Medicine
Irvine, California 92717
(714) 856-5388

General Information. Founded as a private institution in 1896, the University of California, Irvine (UCI) College of Medicine became part of the University of California in 1965 and was relocated to a 122-acre site on the Irvine campus in 1968.

In two decades at UCI, the college has grown extensively, attaining national recognition. The total medical student population has nearly doubled, the resident physician population has more than doubled, and the number of faculty members has quadrupled. Approximately 380 medical students are now enrolled at the college, and over 100 students are pursuing graduate degrees in the biomedical sciences.

The UCI Clinical Services System consists of the University of California, Irvine, Medical Center; two community clinics located in areas of need in Orange County; and numerous affiliated hospitals and clinics which participate in the educational and research programs of the college.

Curriculum. The curriculum consists of 16 instructional periods spread over four years, including a 10-week vacation period between the first and second years, and up to 12 weeks of vacation in the senior year. The core curriculum provides a body of knowledge and skills considered requisite for all those receiving the M.D. degree, regardless of their specific specialty choices.

The first two years of the curriculum are scheduled on a modified quarter system and concentrate on the sciences basic to clinical medicine and preclinical courses. The third and fourth years of the core curriculum consist of clinical clerkships and are scheduled according to 10-week quintiles. Students are also provided ample opportunity to participate in clinical and research elective courses of their choosing.

The focus of this curriculum is on active medical student participation toward the achievement of educational objectives. Demonstrations, small-group discussions, seminars, laboratory work by students, student projects oriented to problem solving, and exposure to clinical situations are integral parts of this focus.

An ongoing Academic Monitoring Program beginning with enrollment is coordinated by the Office of Student and Curricular Affairs to identify students in academic difficulty early in their course work and to ensure the availability of all resources before serious academic difficulties are encountered. Faculty advisers are assigned to all students to provide academic advice through their medical school years. A Peer Tutoring Program is available to all medical students to provide tutorial assistance in the basic and clinical sciences. Study skills training and NBME examinations review courses are also provided.

A letter grading scale (A, B, C, D, F) is used.

A combined M.D./Ph.D. degree is available through the Medical Scientist Program for highly qualified students who have the required academic background, research experience, and strong commitment to a career in biomedical research. Applicants to the Medical Scientist Program must notify the College of Medicine and must complete a supplemental application form. In applying for the program, students must meet the admission requirements of both the College of Medicine and the Office of Research and Graduate Studies, as well as the specific admission requirements of the individual graduate program they select.

Requirements for Entrance. The MCAT and a minimum of three full years of undergraduate college course work are required; however, almost all of the students who have been accepted in recent years had already obtained their bachelor's degrees. The latest MCAT that can be accepted is that given in the fall of the year preceding anticipated admission.

Special course requirements are:

	Sem. hrs.
Biology and/or zoology Must include one year of lower division biology and/or zoology plus one-half year of upper division courses excluding botany and biochemistry.	12
Inorganic chemistry	8
Organic chemistry	8
Physics	8
Calculus	(1 qtr.)

Applicants who do not meet these requirements or who do not indicate that these subjects will be completed by the date of entrance will not be considered for admission.

The Admissions Committee desires to admit students with diverse backgrounds, and no specific undergraduate major is required; however, demonstrated ability in the sciences is of great importance.

Selection Factors. Selections are made on the basis of individual qualifications and not on the basis of race, sex, creed, age, national origin, or handicap. The Admissions Committee carefully reviews all applicants whose undergraduate record and scores on the MCAT indicate that they will be able to handle the rigorous curriculum of medical school. Careful consideration is given to applicants from disadvantaged backgrounds (that is, disadvantaged through social, cultural, and/or economic conditions). Minority applicants are strongly encouraged to apply. In addition to scholastic achievement, attributes deemed desirable in prospective students include indications of leadership ability and participation in extracurricular activities (for example, research, medically related experiences, and community involvement). Preference is given to California residents and to those applicants who are either U.S. citizens or permanent residents.

The AMCAS application is used for preliminary screening. Upon decisions of the Admissions Committee, applicants may be asked to submit additional information. Invitations for personal interviews are extended. The UCI-College of Medicine does not provide funds for interview trips; however, interview reports from other medical schools may be submitted in place of on-campus interviews.

The Admissions Committee reviews the academic records, letters of recommendation, and the results of personal interviews before making its final selections.

The 1989 entering class had the following statistics: *mean science GPA,* 3.4; *mean nonscience GPA,* 3.4.

Financial Aid. The Office of Medical Student Financial Aid offers a variety of aid programs (scholarships, grants, and loans) to assist medical students. To qualify for assistance from most of these programs, an applicant must demonstrate financial need. Currently, 87 percent of the entering students receive aid of some type.

Information for Minority and Disadvantaged Applicants. Qualified applicants from minority and disadvantaged backgrounds are encouraged to apply. The application fee may be waived to individuals who have been granted a fee waiver by AMCAS. Programs for the recruitment and retention of minority and disadvantaged students have been developed through the Office of Student and Curricular Affairs and are supported in part by a grant from the Health Careers Opportunity Program (HCOP).

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $45
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Nov. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 92
Starting date: Sept. 1991

Tuition and Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: None
  Nonresident: $5,799

Academic fees: $1,680

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	2,550	381	2,931
Applicants Interviewed	522	*	522
New Entrants†	92	0	92

*Data not available.

†100% took the MCAT and had baccalaureate degrees.

University of California, Los Angeles
UCLA School of Medicine

Dr. Kenneth I. Shine, Dean
Dr. Martin A. Pops, Associate Dean

Address inquiries to:
Office of Student Affairs
Division of Admissions
UCLA School of Medicine
Center for Health Sciences
Los Angeles, California 90024
(213) 825-6081

General Information. The UCLA School of Medicine graduated its first class in 1955. The medical school is situated on the UCLA campus. A large biomedical library and the University Hospital are parts of the medical school structure. Close affiliation exists between the UCLA School of Medicine and the Los Angeles County Harbor/UCLA Medical Center, the Veterans Administration hospitals at Los Angeles and Sepulveda, and the Cedars-Sinai Medical Center.

Curriculum. The first two years of a four-year curriculum are dedicated to a thorough knowledge of basic sciences. Programs of interest in the first year are the Preceptorship Program, which acquaints the students with clinical medicine, and the Freshman Elective Program, which gives students exposure to a wide range of experiences in clinically related topics supplemental to the required curriculum in the spring quarter. The second year centers on the processes of disease, with emphasis on organ-system oriented instruction, and history-taking skills. The third and fourth years, covering 94 weeks, have a core curriculum of clinical clerkships encompassing the areas of internal medicine, surgery, obstetrics and gynecology, pediatrics, psychiatry, family practice, radiology, neurology, dermatology, and ophthalmology. Electives in the clinical continuum are designed to give students a solid foundation on which to develop and fulfill their personal interest, broaden their clinical knowledge, and give them an educational advantage in securing the clinical training calculated to best prepare them for postgraduate medical training.

A Medical Scientist Training Program, leading to both M.D. and Ph.D. degrees, is available for a limited number of students who desire careers in medical research. This program requires six to seven years to complete and provides rigorous research training in addition to the medical curriculum. Stipends are available for some of the students in this program.

Drew/UCLA Joint Medical Program. Approximately 24 of the 145 students admitted each year have been admitted to the Drew/UCLA Joint Medical Program. This program is designed to attract students who have an interest in addressing the concerns of underserved populations. Students will spend their first two years at the UCLA campus and their second two years at the Drew campus. Interested applicants should contact: Charles R. Drew University of Medicine and Science, 1621 East 120th Street, Los Angeles, California 90059; or call (213) 563-4690.

UCR/UCLA Biomedical Sciences Program. An additional 24 students are admitted to the UCLA School of Medicine through participation in the UCR/UCLA Biomedical Sciences Program, a cooperative venture involving the University of California, Riverside (UCR), UCLA School of Medicine, and Harbor/UCLA Medical Center. Students follow an integrated course of study through five years on the UCR campus and the final two years of clinical studies at the UCLA School of Medicine. Qualified high school students should write to: Division of Biomedical Sciences, University of California, Riverside, Riverside, California 92521-0121; or call (714) 787-4333.

Requirements for Entrance. The MCAT and three years of college are required. Ordinarily a baccalaureate degree is required, but in exceptional instances those who have completed three full academic years at an approved college or university will be considered. The required courses are:

	Years
English and composition	1
College physics (with lab)	1
Chemistry (with lab) Must include study of inorganic chemistry, quantitative analysis, and organic chemistry. (Biochemistry is highly recommended.)	2
Biology One year of upper division courses should be included.	2
College mathematics Must include algebra. Study of introductory calculus is highly recommended.	1

The study of Spanish is highly recommended.

Taking courses, such as human anatomy, that overlap in subject matter with those in medical school is not advised. However, advanced or specialized courses in biological science, such as cellular biology, are desirable.

Candidates are urged to take the MCAT in the spring rather than in the fall of the year of application.

Selection Factors. The Admissions Committee gives preference to those applicants who present evidence of broad training and high achievement in their college education and possess in the greatest degree those traits of personality and character essential to success in medicine. Applicants whose records are judged by the Admissions Committee to qualify them for further consideration will be scheduled to have a personal interview by members of the faculty. The applications are initially reviewed on the basis of letters of recommendation, personal comments, the GPA, and MCAT scores.

In the 1989 entering class, accepted students had the following profile: *mean science GPA,* 3.50; 3.60 *mean nonscience GPA,* 3.64. Applicants to the 1989 class had the following profile: *mean overall science GPA,* 3.3; *mean nonscience GPA,* 3.4.

Selections are made on the basis of individual qualifications and not on the basis of race, sex, creed, age, national origin, or handicap.

A third application is discouraged.

Financial Aid. Scholarships and loan funds from private, state, and federal sources are available to all U.S. citizens and are awarded on the basis of need and/or scholarship. Outside employment is not prohibited but is discouraged, especially in the first year.

Disadvantaged Applicants. The UCLA School of Medicine Admissions Committee is composed of subcommittees, one of which is devoted exclusively to the consideration of applicants who have had a disadvantaged educational or cultural background. This admissions subcommittee, which is composed of faculty and medical students, makes all recommendations for action to be taken on disadvantaged applicants, although final decisions are made by the full Admissions Committee.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $40 if interviewed
Oldest MCAT scores considered: 1989
Does not have Early Decision Program

Acceptance notice to regular applicants
  Earliest date: Jan. 15, 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 145
Starting date: Aug. 1991

Tuition and Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: None
  Nonresident: $5,799

Academic fees: $1,620

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	2,390	1,438	3,828
Applicants Interviewed	350	104	454
New Entrants*	131	14	145

*100% took the MCAT and had baccalaureate degrees.

University of California, San Diego School of Medicine

Dr. Gerard N. Burrow, Dean
Dr. Charles E. Spooner, Jr., Associate Dean for Admissions
Maria Lofftus, Admissions Officer

Address inquiries to:
Office of Admissions, M-021
Medical Teaching Facility
University of California, San Diego
School of Medicine
La Jolla, California 92093-0621
(619) 534-3880

General Information. The simultaneous development of the School of Medicine and the general campus at the University of California, San Diego (UCSD), has fostered implementation of innovative programs enabling the medical students to benefit from the diversity of university faculty, from a wide variety of laboratory teaching facilities, and from a broad spectrum of clinical opportunities. Located on the main campus of the university at La Jolla, the School of Medicine is surrounded by learning resources and research institutions representing all disciplines. Unusual opportunities exist for integrating instruction in medical and related sciences with the natural sciences and disciplines centering on man in his social milieu. Clinical instruction is carried on at University of California Medical Center, Veterans Administration Hospital, Naval Regional Medical Center, and eight other affiliated hospitals and clinics.

Curriculum. The goal of the medical curriculum and faculty-student interactions is to develop critical, objective, conscientious physicians prepared for changing conditions of medical practice and continuing self-education.

The curriculum is divided into two major components: the core curriculum and the elective programs. These are pursued concurrently, with the core curriculum predominating in the early years. The core curriculum includes those aspects of medical education deemed essential for every medical student regardless of background or ultimate career direction. The integrated core curriculum of the first two years is designed to provide each entering student with an essential understanding of the fundamental disciplines underlying modern medicine. The core curriculum of the last two years is composed of the major clinical specialties taught in hospital settings, out-patient situations, and relevant extended-care facilities.

Each student is required to plan and complete an Independent Study Project in consultation with a member of the faculty. A written document is required in all projects. Other components are devised by the student and faculty member.

A Medical Scientist Training Program has been designed to provide the opportunity to earn both the M.D. and Ph.D. degrees over a six- to seven-year period of study for a limited number of students.

Requirements for Entrance. The MCAT is required and should be taken in the spring, but no later than the fall, before the year of anticipated matriculation. A minimum of three years of college are required; the baccalaureate degree is preferred. The academic preparation for admission should be subject-oriented. If two or more undergraduate courses are offered, prospective applicants should select the most rigorous option. Minimal requirements are successful completion of the following courses with a grade of C or better:

Biology: One year of college level biology (excluding botany and biochemistry).
Chemistry: Two years of college level chemistry; must include one year of organic chemistry.
Physics: One year of college level general physics.
Mathematics: One year of course work; only calculus, statistics, or computer science will be considered.
English: Competence in speaking and writing English is required.

A broad base of knowledge is advantageous in preparing for the many roles of a physician and may include courses in: behavioral sciences, the biology of cells and development, genetics, biochemistry, English, social sciences, or conversational Spanish.

The Admissions Committee will only consider applicants who have taken the MCAT and completed the academic prerequisites.

Selection Factors. The Admissions Committee selects applicants who have demonstrated intelligence, maturity, integrity, and dedication to the ideal of service to society and who are best suited for meeting the educational goals of the School of Medicine and for the successful practice of medicine. The school desires students with diverse interests and backgrounds. The Admissions Committee has no preference as to undergraduate major but does prefer students with evidence of broad training and in-depth achievement in a particular area of knowledge, whether in the humanities, social sciences, or natural sciences.

All applicants are evaluated without regard to sex, race, religion, national origin, age, or handicap. Preference is necessarily afforded to California residents, and consideration is given only to applicants who are either U.S. citizens or permanent residents. Candidates are evaluated on the nature and depth of scholarly and extracurricular activities undertaken, their academic record, performance on the MCAT, letters of recommendation, and personal interviews. The Admissions Committee interview evaluates the applicants' abilities and skills necessary to satisfy the nonacademic or technical standards established by the faculty and the personal and emotional characteristics that are necessary to become an effective physician. The UCSD School of Medicine participates in the WICHE Professional Student Exchange Program for applicants from certain western states without medical schools.

Accepted students for the 1989 entering class had the following credentials: *mean GPA,* 3.49; *sex,* 35 percent women; *residence,* 93 percent from California; *undergraduate major,* 57 percent in biology or chemistry, with the remainder in the physical sciences, humanities, and social sciences; *overall formal application and acceptance rates,* 45 percent of those students interviewed received acceptances, and 272 acceptances were offered to obtain a class of 122 students.

Financial Aid. Financial aid in the form of scholarships, grants, loans, and work opportunities is offered to help students in need of financial assistance. Approximately three-quarters of the students receive financial assistance during their four years of study. Medical Scientist Training Program participants may receive full tuition and a stipend for up to six years. An application form for financial aid is sent to every accepted student upon request.

Information for Minorities. The UCSD School of Medicine is committed to the national effort to expand the educational opportunities and to increase the representation of minorities in the health professions. This institutional commitment is expressed through the active Special Admissions Support Program; a waiver of application fee upon written request; a prematriculation summer program; tutorial support programs; and ample financial aid assistance, offered within program limits. All students with a demonstrated need are eligible.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $40
Oldest MCAT scores considered: 1977
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 122
Starting date: Sept. 1991

Tuition and Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: None
  Nonresident: $5,799

Academic fees: $2,117

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	2,565	1,056	3,621
Applicants Interviewed	*	*	*
New Entrants†	113	9	122

*Data not available.

†100% took the MCAT and had baccalaureate degrees.

University of California, San Francisco School of Medicine

Dr. Joseph Martin, Dean
Dr. Lloyd H. Smith, Jr., Associate Dean for Special Projects and Admissions
Kathleen Plessas, Director of Admissions

Address inquiries to:
School of Medicine, Admissions
C-200, Box 0408
University of California, San Francisco
San Francisco, California 94143
(415) 476-4044

General Information. The University of California, San Francisco (UCSF), School of Medicine, established as the Toland Medical College in 1864, became affiliated with the University of California in 1873. Clinical instruction is carried out at University of California Hospitals, San Francisco General Hospital, Veterans Administration Hospital, Mount Zion Hospital, and 33 other hospitals.

Curriculum. During the first two years, core instruction in the basic sciences is offered by the preclinical departments. Early clinical correlation is introduced both in the basic science courses and in clinical courses. There is increased emphasis on small-group teaching, and teaching of medical problem solving is begun at the beginning of the first year. In the last two years the various clinical departments provide 52 weeks of core clerkships, which teach students the basic techniques of clinical medicine. An additional 34 weeks of clinical and basic science courses must be elected from a wide range of offerings at UCSF Medical Center and other hospitals.

The grading system is pass/not pass. Honors recognition is assigned on an individual basis.

There are numerous opportunities for students to engage in research. They include the joint degree programs, Student Research Fellowship Program, medical scientist pathway, and research electives.

Special programs are available for students who wish to earn the M.D. degree jointly with the M.S., M.P.H., or Ph.D. degree. In addition, through the Medical Scientist Training Program, approximately six students in each class may obtain the M.D. and Ph.D. degrees in six or more years of study.

The Joint Medical Program, sponsored by the University of California at Berkeley and San Francisco, is a five-year graduate and professional program leading to M.S. and M.D. degrees. The goal of the graduate segment (three years at Berkeley) is to develop students' abilities to approach problems of health and disease that require in-depth training in a variety of disciplines. Basic science and introductory clinical courses are enriched by individually structured master's degree programs in selected areas of the medical sciences or in the social sciences pertinent to health care. Upon the student's completion of the Berkeley phase of the program, including a master's thesis, an M.S. degree in health and medical sciences is awarded. Students then transfer to UCSF for the remainder of their training for the M.D. degree. The size of each class is limited to 12 students. Details are available from: Graduate Office; Health and Medical Sciences Program; Room 106, Building T-7; University of California, Berkeley, California 94720; telephone (415) 642-5671.

Requirements for Entrance. The MCAT and a minimum of three years of college are required. A baccalaureate degree is strongly recommended but not required. The MCAT must be taken no later than the fall of the year of application. However, applicants are strongly urged to take the test the preceding spring rather than the fall. Note: The class entering in 1992 will be required to take the new MCAT to be given beginning in 1991.

Applicants must complete 135 quarter units (90 semester units) of acceptable transfer college credit by June of the year of desired entry. These courses must be completed at an accredited institution; moreover, only 105 acceptable quarter units may be transferred from a junior college. Courses must include:

	Qtr. hrs.
Biology or zoology (with lab)	12
Must include vertebrate zoology.	
General chemistry (with lab)	12
Organic chemistry	8
Physics (with lab)	12

Survey courses in the sciences are not acceptable as fulfilling the requirements in science.

It is to the applicant's advantage to complete the above prerequisites before taking the MCAT and filing an application.

Selection Factors. The School of Medicine welcomes applicants from all ethnic, economic, and cultural backgrounds without discrimination.

Selection is based on an appraisal of both intellectual and personal characteristics which the Admissions Committee regards as desirable for prospective medical students and physicians. Based on these considerations, a limited number of applicants (550–600) are selected for interview. Personal interviews are required of applicants who pass the second screening. Regional interviews are not available.

Successful applicants tend to have strong academic records; firm and clear motivation for medicine which is manifested in their work experience, activities, or interests; and outstanding personal qualities. Academic performance is evaluated in relation to background, with the aim of determining the influence of external factors on this parameter. Since preference is given to California residents, only nonresidents with superior qualifications are encouraged to apply. Foreigners who are not permanent residents of the United States should not apply unless they have superior qualifications and adequate funding for their medical education and living expenses.

Some statistics of the 1989 entering class were: *mean cumulative GPA,* 3.69; *mean science GPA,* 3.72; *mean MCAT scores, B*-11, *C*-12, *P*-12, *SP*-12, *SA:R*-10, *SA:Q*-10; *sex,* 42 percent women; *non-white ethnic groups,* 48 percent; *underrepresented minority groups,* 23 percent.

Financial Aid. A limited number of scholarships are awarded to entering students on the basis of scholarship and/or need. General financial support is awarded through the Financial Aid Office. Aid packages consist of a combination of loans, grants-in-aid, and scholarships.

Information for Minorities. The School of Medicine has a long-standing commitment to increasing the number of physicians who are members of minority groups which are underrepresented in the medical profession. As a result, over the last 15 years UCSF has had one of the highest minority enrollments of continental U.S. medical schools. In addition, the medical school welcomes applications from socioeconomically disadvantaged persons, regardless of race. The campus-wide Health Sciences Special Services Program provides application fee waivers.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $40
Oldest MCAT scores considered: 1989
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Nov. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 141 (plus 12 students in Joint Medical Program)
Starting date: Sept. 1991

Tuition and Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: None
  Nonresident: $5,799

Academic fees: $1,857

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	2,075	1,630	3,705
Applicants Interviewed	*	*	545
New Entrants†	122	31	153

*Data not available.
†100% took the MCAT and had baccalaureate degrees.

Loma Linda University School of Medicine

Dr. B. Lyn Behrens, Dean
Dr. John Kerbs, Associate Dean for Admissions
Marilyn Dietel, Financial Aid Officer

Address inquiries to:
Associate Dean for Admissions
Loma Linda University
School of Medicine
Loma Linda, California 92350
(714) 824-4467

General Information. The School of Medicine was organized in 1909 at Loma Linda. The campus includes basic science facilities and the Loma Linda University Medical Center. Also used for clinical instruction are the Jerry L. Pettis Memorial Veterans Hospital, Riverside General Hospital, and the White Memorial Medical Center in Los Angeles. San Bernardino County General Hospital, Kaiser Foundation Hospital, and Glendale Adventist Medical Center are also affiliated with the School of Medicine and are utilized for undergraduate and postgraduate clinical training.

Objectives of the School of Medicine include providing the student with a solid foundation of medical knowledge, assisting the student in the attainment of professional skills, and motivating investigative curiosity and a desire to participate in the advancement of knowledge. The school endeavors to reinforce interest in the practical application of Christian principles through service to mankind.

Curriculum. The major objective of the School of Medicine is to prepare students who will be well grounded in the sciences and art of medicine and also will be prepared after further training for the practice of general medicine or any specialty.

The first two years are primarily devoted to the study of the basic medical sciences, including the relationship to pathology and clinical application, and introduction to physical diagnosis and human behavior. The last two years provide clinical rotations in the major areas of medical practice: surgery, internal medicine, pediatrics, obstetrics-gynecology, family medicine, preventive medicine, and psychiatry. Elective time is available for various types of additional educational experience in the clinical or research areas to prepare students in their selection of postgraduate medical education.

Qualified students, interested in a career in academic medicine, may earn an M.S. or Ph.D. degree along with the M.D. degree. Six to seven years are required to complete this program.

Performance of students is evaluated by means of standard or scaled scores. The grading system is on a pass/fail basis.

Requirements for Entrance. Preference is given to applicants who will have completed the baccalaureate degree prior to matriculation. Suitable major areas include the biological and physical sciences, humanities, social sciences, and behavioral sciences. The MCAT and a minimum of three academic years in college are required. Applicants must have completed the requirements at an accredited undergraduate institution. Rejected applicants may reapply and usually will receive the same consideration as first-time applicants.

Required courses are:

	Sem. hrs.
General biology or zoology (with lab)	8
General or inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
Physics (with lab)	8
English Equivalent to satisfy baccalaureate degree requirement.	

CLEP and pass/fail performances are not acceptable for the required courses.

Applicants are urged to take the MCAT in the spring of the year of application and to have the basic requirements completed at the time of application.

Selection Factors. The Admissions Committee seeks candidates who have demonstrated the greatest potential for becoming capable physicians. A strong academic background is needed in preparation for medical studies. While special attention is given to the performance in science courses, candidates should also have a solid foundation in the humanities, social sciences, and human behavior.

The Admissions Committee looks for applicants who demonstrate problem-solving skills, critical judgment, and ability to pursue independent study and thinking. In evaluating academic achievements, the Admissions Committee considers such factors as the difficulty of the program, the need to work, social and cultural hardship, and participation in meaningful extracurricular activities. For nonacademic qualifications, the committee looks for a commitment to medicine, judgment, a positive attitude, ability to make decisions, emotional stability, and integrity.

The School of Medicine is owned and operated by the Seventh-Day Adventist church; therefore, preference for admission is given to members of this church. However, it is a firm policy of the Admissions Committee to admit each year a number of non-church related applicants who have demonstrated a strong commitment to Christian principles. No candidate is accepted on the basis of any religious affiliation alone. The school does not discriminate on the basis of race, sex, age, or handicap.

After receipt of the AMCAS application, each applicant is requested to submit the supplementary form and supply preprofessional faculty evaluations and personal letters of recommendation. Invitations for an interview are extended to selected applicants on the medical school campus and on a regional basis at selected locations throughout the country.

Final selection is made by the Admissions Committee on the basis of overall scholastic record, personal character qualifications, and promise of success as a physician.

Matriculated students for the class of 1989 had a mean overall GPA of 3.5.

Financial Aid. The School of Medicine has limited loan funds available through the Student Finance Office. All aid is awarded on the basis of a uniform needs analysis. Financial aid information is provided to all accepted students. In view of the costs of a medical education, students are urged to plan their financial program carefully.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee after screening: $35
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Dec. 14, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 30 days
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 130 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees: $15,250

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,148	1,052	2,200
Applicants Interviewed	*	*	479
New Entrants†	77	52	129

*Data not available.
†100% took the MCAT; 95% had baccalaureate degrees.

University of Southern California School of Medicine

Dr. Robert E. Tranquada, Dean
Dr. Ralph C. Jung, Associate Dean for Admissions/
Student Affairs
Arleen Marx, Admissions Officer

Address inquiries to:
Office of Admissions
University of Southern California
School of Medicine
1975 Zonal Avenue
Los Angeles, California 90033
(213) 342-2552

General Information. The University of Southern California (USC), a privately supported, nondenominational, coeducational university, established its School of Medicine in 1885. The 30-acre campus is located directly across the street from its chief teaching hospital, the 2,105-bed Los Angeles County-USC Medical Center. In addition to the Medical Center (largest teaching center in the United States), clinical facilities include Norris Cancer Hospital and Research Institute, Doheny Eye Hospital, Children's Hospital of Los Angeles, Rancho Los Amigos Hospital, Orthopedic Hospital, Hospital of the Good Samaritan, Barlow Hospital, California Hospital, Huntington Memorial Hospital, Presbyterian Intercommunity Hospital, and Eisenhower Medical Center. A new 275-bed University Hospital located on the Health Sciences Campus will open in 1991.

Curriculum. Students are progressively involved in patient care beginning with patient contact during the first semester of the first year. An important feature is Introduction to Clinical Medicine, a course which begins in the freshman year and runs through the sophomore year. Doctor-patient relationships and interviewing are presented during the first year and physical diagnosis and history-taking are discussed in the second. Groups of approximately six to seven students, led by a faculty member who serves as clinical tutor to these students for their first two years.

Basic sciences are taught largely in an organ system approach. Appropriate material in the basic sciences is presented during the study of these systems; patients are observed and examined for clinical illustration of the subject under discussion. In this way the student is better able to understand and retain the basic scientific principles of medicine.

In the second year the student studies the pathologic aspects of medicine, also predominantly in an organ system approach. In addition, a student may begin an investigative project sponsored by a department. The third year is a time for participation in the required clinical clerkships, such as internal medicine and general surgery. Elective study is provided in the third and fourth years. The senior year consists almost entirely of work chosen by the student.

In addition, students have an opportunity to engage in clinical or basic research through voluntary participation in a summer fellowship program between the freshman and sophomore years.

The school sponsors an M.D.-Ph.D. program for those interested in obtaining these degrees jointly. A special fifth-year option is available for students who wish to pursue a research project and may be considering a career in academic medicine.

Grading is on an honors, satisfactory basis.

Requirements for Entrance. The MCAT and a minimum of three years of college are required; the baccalaureate degree is preferred. Each applicant must have at least 90 semester hours of accredited college work. Course work must include the following subjects:

	Sem./Qtr.
Biology (with lab)	2/3
Inorganic chemistry (with lab)	2/3
Organic chemistry (with lab)	2/3
General physics (with lab)	2/3

Sound preparation in the basic sciences is essential, but a broad background in the social sciences and humanities is also necessary.

Applicants are strongly urged to take the MCAT in the spring of the year of application and to have their basic science requirements completed at the time of application.

Foreign students must have completed at least one year of study in an accredited university or college in the United States prior to application.

Selection Factors. The Committee on Admissions seriously considers candidates whose academic achievement and MCAT performance indicate their ability to satisfactorily complete the rigorous curriculum of the medical school. Favorable consideration reflects additional factors including motivation, evidence of those personal qualities which are deemed desirable for the study and practice of medicine, and potential for significant achievement. This assessment is not influenced by race, creed, sex, nationality, residence, age, or handicap.

Receipt of the application from AMCAS is acknowledged. Candidates are requested to complete the supplemental application and to arrange for submission of letters of recommendation. The application fee may be waived in cases of demonstrated need. Decisions regarding interviews are based upon careful evaluation of the application and all supporting documentation. Interviews are required of all applicants under serious consideration and are granted only by invitation of the Committee on Admissions.

The class which entered in 1989 had a mean science GPA of 3.42. The mean MCAT score of the applicant pool was 55. However, the performance of accepted students was significantly higher. Women comprised 40 percent of the 1989 entering class. Accepted students ranged in age from 19 to 42. Nine percent had advanced degrees.

Financial Aid. A variety of university scholarships and loans are available to supplement federal and state programs. Awards are based on financial need as demonstrated through a financial statement. Approximately 70 percent of the student body receive some type of financial assistance. Students are discouraged from accepting employment during the academic periods. Additional information may be obtained by contacting Linda Lewis, director of financial aid, at (213) 342-1016.

Information for Minorities. The primary objective of the Office of Minority Affairs is to provide supportive services to USC minority medical students, including organized tutorial assistance, group counseling and discussions, individual counseling, community support, and interdepartmental communications. It also includes the creation of a warm environment where minority students feel a sense of belonging.

The Office of Minority Affairs is involved with the active recruitment of qualified minority applicants for the health professions. Potential applicants are encouraged to contact Althea Alexander, assistant dean, at (213) 342-1050.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Nov. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 136
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $19,210

Student fees: $246

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	2,206	824	3,020
Applicants Interviewed	*	*	800
New Entrants†	125	11	136

*Data not available.

†100% took the MCAT and had baccalaureate degrees.

Stanford University School of Medicine

Dr. David Korn, Vice President and Dean, School of Medicine
Dr. Norman Blank, Director of Admissions
Edward Caron, Director of Financial Aid

Address inquiries to:
Office of Admissions
Stanford University
School of Medicine
851 Welch Road-Room 154
Palo Alto, California 94304-1677
(415) 723-6861

General Information. The Stanford University Hospital and School of Medicine, established in San Francisco in 1908, were relocated on the university campus at Palo Alto in 1959. Association with several local hospitals (totaling over 3,000 beds) provides facilities for comprehensive clinical training, and the school offers opportunities in many areas of fundamental and clinical research.

Curriculum. The curriculum aims to develop students' capacities for innovative leadership in clinical practice and to maximize their opportunities to prepare for careers in research and teaching in the various branches of clinical and social medicine and biomedical sciences. The curricular plan affords wide opportunities for academic, research, and cultural activities in the medical school and university.

The required curriculum includes work in the basic medical sciences and clinical experiences in medicine, surgery, pediatrics, gynecology-obstetrics, and psychiatry. All M.D. candidates must satisfactorily complete at least 13 quarters of academic work. Fees for additional quarters are nominal. Students are encouraged to plan for a five-year course of study in order to include research activities, teaching assistantships, and a variety of elective courses both in the medical school and in other schools of the university in their educational enrichment plans. Thus, the time spent in medical school may vary with the individual student's background and study plans. Courses are graded pass/fail.

Stanford offers many opportunities for study in depth in the preclinical and clinical disciplines. Students with strong interests in careers in medical research should inquire from the Office of Admissions about the Medical Scientist Training Program (MSTP) or the training programs in cancer biology, immunology, medical information sciences, neurosciences, or pharmacology. These federally funded programs enable selected students to pursue research and course work leading to both the M.D. and Ph.D. degrees. Students receive MSTP application forms together with the supplementary materials for application to the School of Medicine. Applications for other programs are supplied on request.

The medical school offers a summer matriculation program for new matriculants who qualify on the basis of minority or disadvantaged status.

Requirements for Entrance. The MCAT is required, preferably taken in the spring but no later than the fall of the year of application. A baccalaureate degree is preferred but not required. Applicants seeking admission under unusual circumstances should contact the Office of Admissions. The minimal entry requirements are:

	Years
Biological science (with lab)	1
Chemistry, including organic chemistry, (with labs)	2
Physics (with lab)	1

Courses in calculus, physical chemistry, behavioral sciences, and particularly in biochemistry are strongly recommended.

An undergraduate major in any field is acceptable, but high achievement in the required basic sciences is essential. Breadth of education and/or experience in the humanities and social sciences and knowledge of a foreign language are desirable.

Selection Factors. Stanford's educational milieu fosters rigorous scholarship and encourages students to develop investigative and innovative approaches to problems in medicine. The school seeks applicants who have a strong humanitarian commitment and whose originality, creativity, and independent, critical thinking best equip them for this environment.

Stanford does not discriminate against applicants on the basis of race, religion, national origin, sex, marital status, age, or handicap. The applicant's state of residence is irrelevant in the selection process. No preference is given to California residents. Foreign applicants must have completed a minimum of one year of study in a U.S., Canadian, or United Kingdom accredited college or university.

Acceptances are based upon standards of merit, and no quotas of any kind play a role in the evaluation or selection process.

In recent years, applicants granted admission have had a mean GPA of about 3.6 and mean MCAT scores as follows: *B*-11, *C*-12, *P*-12, *SP*-12, *SA:R*-10, *SA:Q*-10. Applicants whose MCAT scores are below the national mean are highly unlikely to be admitted to the medical school.

The application fee will be waived for applicants who have obtained a fee waiver from AMCAS. Otherwise, fee waiver requests must be accompanied by a supporting statement from the dean or financial aid officer.

Application during the summer or early fall is strongly encouraged.

Financial Aid. Acceptance is independent of the applicant's financial status, and Stanford makes every effort to ensure that students are not excluded from the school for financial reasons. Approximately 80 percent of the students receive some sort of financial assistance. Available loan and grant funds are allocated to candidates on the basis of need, as determined by GAPSFAS (see Chapter 6). All students are considered to be parental dependents. Eligibility for aid is assessed according to budgets that are standardized for various living situations. Any expenses in excess of the standard budget are reviewed separately. As many legitimate expenses as possible will be covered subject to availability of funds.

Accepted candidates who are neither American citizens nor permanent residents are eligible for limited assistance.

Teaching assistantships and research opportunities, for which students receive a salary and a tuition grant, can reduce the indebtedness of students who receive financial aid. However, such employment should not be viewed as a guaranteed way to meet expenses.

Applicants should submit the GAPSFAS form as soon as possible after February 1 so that, if requested, a preliminary estimate of the award can be provided by the Financial Aid Office. Application forms for financial aid are made available to all applicants who reach the interview stage. The telephone number for the Financial Aid Office is (415) 723-6958.

Information for Minorities and Women. Because minorities and women are underrepresented in medicine, especially in academic medicine, Stanford seeks to recruit and educate underrepresented minority and women students. Thus, applications from these students are encouraged.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $55
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 86 (2 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees: $16,764

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,615	2,385	4,000
Applicants Interviewed	231	336	567
New Entrants*	36	49	85

*100% took the MCAT and had baccalaureate degrees.

University of Colorado
School of Medicine

Dr. Eugene D. Jacobson, Dean
Dr. Henry K. Silver, Associate Dean for Admissions
Dr. David P. Sorenson, Director of Admissions
and Student Services

Address inquiries to:
Office of Admissions and Records
Box A054
University of Colorado
School of Medicine
4200 East Ninth Avenue
Denver, Colorado 80262
(303) 270-7676

General Information. The University of Colorado School of Medicine is a multifacility aggregate with all modern resources for the assessment and comprehensive health care of individuals of all ages. Multidiscipline student laboratories provide opportunity for more effective teaching and correlation of the basic medical sciences. There are no student dormitories, but the school is located in a residential area. The Health Sciences Center maintains an active Student Health Center.

The faculty of the medical school has 575 full-time and 1,200 volunteer members.

Curriculum. The curriculum is under constant study and has recently been extensively revised to meet the changing needs in medical education. Students participate actively in this revision.

The grading system is honors/pass/fail.

Requirements for Entrance. The MCAT and a baccalaureate degree or at least 120 semester hours of college credit with a major leading to a degree are required. The MCAT must be taken before the November 1 application deadline. The following courses are required:

	Sem. hrs.
General biology or zoology (with lab)	8
General chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
College mathematics	6
Should include at least college level algebra and trigonometry or the equivalent by means of advanced placement.	
English literature or equivalent	6
English composition or creative writing or equivalent	3

Calculus and a quantitative mathematically oriented physics course are recommended as a valuable conceptual basis for understanding rates of change in physiological processes.

The literature and English composition requirements are based on the recognized need of the future physician to have skill in communication.

In order to receive credit for any advanced placement, the subject matter credited must be listed on the official college transcript.

Selection Factors. Places are offered to the applicants who appear to the Committee on Admissions to be the most highly qualified in terms of intellectual growth and achievement, character, motivation, maturity, and emotional stability. For this assessment, college grades, MCAT scores, recommendations from college instructors and others, and required personal interviews are used. No applicant will be accepted without a personal interview.

Of the approximately 125 places in each class, most will be awarded to Colorado residents. Thereafter, preference will be given to a small number of certified applicants from certain western states participating in the WICHE program and to a few applicants from other states who have high GPAs and MCAT scores.

The medical school has an active M.D./Ph.D. combined-degree program. Opportunities for research in medical school are also available for other students.

The acceptance rate is comparable for men and women applicants. A wide variety of undergraduate majors are considered acceptable in the selection of applicants. Demonstration of good performance in the prerequisite sciences as well as in other courses is needed.

Residents of Colorado, out-of-state applicants, as well as applicants sponsored by the WICHE states of Wyoming, Montana, and Alaska are encouraged to apply through the Early Decision Program.

The University of Colorado School of Medicine does not discriminate on the basis of race, sex, creed, national origin, age, or handicap. Financial status is not a factor in the selection of applicants.

Financial Aid. The medical school participates in the federal aid programs and also has available a number of other scholarship and loan funds which are distributed on the basis of financial need. Colorado student grant funds are available for Colorado residents. Recent federal funding policies have significantly decreased the school's ability to assist needy students.

Information for Minorities. The University of Colorado encourages applications from qualified minority group students. Acceptance is determined by the Committee on Admissions and is based on the same type of criteria that apply to nonminority applicants. The committee carefully considers the student's social, economic, and educational background. It is possible for some disadvantaged students to have application fees and interview costs defrayed.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $40
Oldest MCAT scores considered: 1986
Does have Early Decision Program (EDP)
  Nonresidents should apply through EDP
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition, fees, or other student obligations during last term): $200, due with response to acceptance offer. Supplemental $300 deposit due Aug. 1, 1991 (applied to first term).
Deposit refundable prior to: 60 days before registration date
Estimated number of new entrants: 125 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $7,874
  Nonresident: $32,662

Student fees: $978

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	316	518	834
Applicants Interviewed	244	101	345
New Entrants*	114	13	127

*100% took the MCAT; 99% had baccalaureate degrees.

University of Connecticut School of Medicine

Dr. Eugene M. Sigman, Dean
Dr. M. Markowitz, Associate Dean for Student Affairs
Keat Sanford, Director of Admissions and Student Records

Address inquiries to:
Office of Admissions and Student Affairs
University of Connecticut
School of Medicine
University of Connecticut Health Center
263 Farmington Avenue
Farmington, Connecticut 06032
(203) 679-2152

General Information. Established in 1968 as a unit of the University of Connecticut, the School of Medicine occupies the University of Connecticut Health Center complex in Farmington. The Health Center includes under one roof the School of Medicine and School of Dental Medicine, the 230-bed University Hospital and Ambulatory Unit, and the 130,000-volume Stowe Library. Clinical training programs exist in eight affiliated hospitals in the greater Hartford area and 11 allied community hospitals.

Curriculum. The curriculum plan for medical students is based on a multidepartmental approach to the understanding of basic medical sciences. Faculty members from the basic science disciplines form subject committees for each of the major organ systems. There is student-faculty review of educational goals and methods, and each subject committee reviews course content at regular intervals. Introduction to Clinical Medicine, beginning in the first weeks, acquaints students with interpersonal, social, and economic problems of medical care. Throughout the basic science years, students observe patients and learn physical diagnosis and history-taking. In the third year students rotate through five basic clerkships. They work as part of a team of house staff and students engaged in patient care. In the fourth year students complete a six-week primary care clerkship and seven months of electives. To aid individual development, students are assigned significant amounts of free time during the first two years and a wide choice of elective subjects in the clinical years. The NBME examinations are required of all students. The grading system is strictly pass/fail; there are no class rank scales or class standing. Recently instituted, the third-year grading system is honors and pass/fail.

Requirements for Entrance. The MCAT and three years of college are required; four years of college and the baccalaureate degree are recommended. Prerequisite courses are:

	Sem. hrs.
General biology or zoology (with lab)	8
General chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8

The level of these required courses should be equal to courses for those majoring in these respective fields.

The School of Medicine supports the view that a broad liberal arts education provides the best background for those entering the medical profession. It will be difficult for students to master the programs in medicine unless they are adept in the use of the English language and in the handling of quantitative concepts. It is strongly recommended, therefore, that students include courses in their undergraduate curriculum that will provide them with a broad liberal arts background and aid them in the future development of their communicative and quantitative skills.

Selection Factors. The aim of the University of Connecticut School of Medicine is to accept qualified Connecticut residents, with special effort to include those at a disadvantage by reason of economic background or race. This assumes that places will be offered only to those whose achievements and/or capabilities are consistent with the rigor and high standards of the school's educational programs. A few exceptionally qualified out-of-state residents will be considered.

The factors considered by the Admissions Committee are the applicant's achievements, ability, motivation, and character. The applicant's GPA and MCAT scores are considered along with difficulty of the academic program, evidence of academic achievement beyond the regular course work, and evidence of intellectual growth and development. Additional consideration is given for nonacademic activities and involvements and for letters of recommendation.

Requests to consider MCAT scores older than three years are handled individually.

Personal interviews are arranged only at the request of the Admissions Committee. The University of Connecticut does not discriminate on the basis of race, sex, creed, national origin, age, handicap, marital status, or financial status.

The 1989 entering class had a mean GPA of 3.44 and a mean MCAT of 9.6.

Financial Aid. Financial aid is available in three forms: scholarships; long-term, low-interest loans; and short-term, no-interest emergency loans. Eligibility for all programs is primarily based on demonstrated need. A limited number of part-time jobs are available.

Approximately 85 percent of the students receive financial aid during the four-year educational period. Financial aid is not considered relevant to the admissions process or an individual's qualifications. Each student's financial need is assessed after admission, and every effort is made to meet the student's minimum financial requirements. Further information is available from Pat Freedman, director of financial aid.

Information for Educationally Disadvantaged Students. The school and its faculty have tried aggressively to provide educational opportunity to students from educationally disadvantaged groups who are underrepresented in American medicine. Special groups exist for underrepresented minority and disadvantaged high school and undergraduate students. Tutorial and counseling assistance is available to all students.

The financial aid package is constructed on the basis of individual need, and every effort is made to meet this need.

Application fees may be waived for disadvantaged students.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1986
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 78 (8 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $4,950
  Nonresident: $11,200
Student fees: $2,250

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	301	1,295	1,596
Applicants Interviewed	250	200	450
New Entrants*	71	7	78

*100% took the MCAT and had baccalaureate degrees.

Yale University School of Medicine

Dr. Leon E. Rosenberg, Dean
Dr. Thomas L. Lentz, Assistant Dean for Admissions
Pamela J. Nyiri, Director of Financial Aid

Address inquiries to:
Office of Admissions
Yale University
School of Medicine
367 Cedar Street
New Haven, Connecticut 06510
(203) 785-2643

General Information. The Yale University School of Medicine was established by passage of a bill in the Connecticut General Assembly in 1810 granting a charter for the Medical Institution of Yale College. The Yale- New Haven Medical Center is composed of the School of Medicine, the School of Nursing, and the Yale-New Haven Hospital. The West Haven Veterans Hospital, Connecticut Mental Health Center, Yale Psychiatric Institute, Hospital of St. Raphael, and Waterbury Hospital are also used for instruction. The Yale Medical Library has an extensive collection of current and historical medical literature.

Curriculum. The Yale program of medical education is designed to afford the intelligent, motivated student an opportunity to study the basic medical sciences and clinical medicine at the graduate level.

The initial phase of the curriculum, during the first one and one-half years, is devoted to the study of the normal structure and function of the human body from the cellular level to the total organism. The basis of this program is the conviction that the best preparation for medical practice, research, or teaching is an educational experience oriented toward the analysis and solution of medical problems as well as the acquisition of factual detail. The program allows considerable freedom for planning according to the ability and interests of the student.

In the second phase of the curriculum the student is concerned with the care of patients and the study of prevention, diagnosis, and treatment of disease. This phase begins with an introduction to clinical medicine followed by a program of required clerkships, an ambulatory care experience, electives, work on thesis, independent study, and vacation. During this period of time students will plan a program of electives designed to meet their individual goals and objectives for their career.

A dissertation based on original research in an area of the student's choosing is a requirement for the degree of doctor of medicine. Evaluation of achievement is dependent primarily on the intimate acquaintance of faculty members with each student and their appraisal of the student's progress.

Requirements for Entrance. It is recommended that students enter medical school after four years of study in a college of arts and sciences or institute of technology. Students holding advanced degrees in science or other fields are also considered. Foreign students must ordinarily have completed at least one year of study in an American college prior to application. Students who have been refused admission on three prior occasions are ineligible to apply for admission to the first-year class.

The MCAT and satisfactory completion of the following courses are required.

	Sem. hrs.
General biology or zoology (with lab)	6–8
General or inorganic chemistry (with lab)	6–8
Organic chemistry (with lab)	6–8
General physics (with lab)	6–8

Acceptable courses in these subjects usually extend over one year and are given credit for six to eight semester hours. The medical faculty has no preference as to a major field for undergraduate study but recommends that students advance beyond the elementary level in their field of study. Students entering college with a strong background in the sciences, as demonstrated by advanced placement, are encouraged to substitute advanced science courses for the traditional requirements listed above.

Selection Factors. The Committee on Admissions in general seeks to admit students who best suit the philosophies and goals of the school, which include providing an education in the scholarly and humane aspects of medicine and fostering the development of leaders who will advance medical practice and knowledge. It also seeks to ensure an adequate representation of women and minority groups and a diversity of interests and backgrounds. Yale University School of Medicine does not discriminate on the basis of race, sex, religion, national origin, age, or handicap.

In considering applicants, the committee views the individual as a whole, taking into consideration each student's academic record, MCAT scores, premedical committee evaluations, letters of recommendation, outside accomplishments, personal qualities, and suitability for Yale.

Interviews are arranged only by invitation of the admissions committee. A large number of applicants have attained a high level of academic achievement as indicated by grades and test scores. Activities and accomplishments are of considerable importance in distinguishing candidates as individuals and demonstrating the ability to make significant independent contributions. The admissions committee also considers personal attributes thought to be important in a physician and suitability for the Yale program of medical education.

Financial Aid. The school discourages excessive outside work and provides scholarship awards and loans for those who have serious financial needs. Financial aid applications will be enclosed with notification of acceptance in the event students wish to apply for financial assistance. All applicants for financial aid will be required to participate in GAPSFAS. The GAPSFAS requires student, spouse, and family financial statements. (See Chapter 6 for details.)

Information for Minorities. Yale University School of Medicine seeks to obtain an adequate representation of all minority groups and encourages qualified minority students to apply. Applicants invited for interviews will have the opportunity to meet with minority students and faculty to learn about the school. The Committee on Admissions includes minority members.

Further information may be obtained from Maxine I. Whitehead, director for minority affairs.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: June 1, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 1–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Dec. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: June 1, 1991
Estimated number of new entrants: 100 (5 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $15,850

Student fees: $320

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	188	1,783	1,971
Applicants Interviewed	*	*	775
New Entrants†	10	90	100

*Data not available.
†100% took the MCAT and had baccalaureate degrees.

George Washington University School of Medicine and Health Sciences

Dr. Robert I. Keimowitz, Dean for Academic Affairs
Dr. John F. Williams, Assistant Dean for Admissions
Sarah L. Fuller, Director of Financial Aid

Address inquiries to:
Office of Admissions
George Washington University
School of Medicine and Health Sciences
2300 Eye Street, N.W.
Washington, D.C. 20037
(202) 994-3506

General Information. Classes were first held in the School of Medicine of the George Washington University (GWU) in 1825. By 1973 modern facilities, including Ross Hall (a research and basic sciences center) and a medical library with a sophisticated audiovisual department, were in operation near the University Hospital and clinics. The University Hospital provides clinical teaching and research opportunities; the clinics provide ambulatory experience in the medical and surgical specialties. The teaching services of the Children's Hospital National Medical Center, Fairfax Hospital, Holy Cross Hospital, National Naval Medical Center, St. Elizabeths Hospital, Veterans Administration Hospital, and Washington Hospital Center are available to students, under the direction of the faculty.

Curriculum. The curriculum offers a comprehensive medical education while permitting substantial pursuit of individual interests through elective work. Graduates are well qualified to continue their education in any field of medicine. A thorough background in basic sciences is offered through departmental and interdisciplinary courses in the first two years. Clinical correlation is an integral part of the curriculum as early as the first year. Clinical clerkships, offered under close supervision, begin in the third year. Choice of courses is largely elective during the fourth year. The honors/pass/conditional/fail system is used for grading.

A new M.D./master's of public health degree program is also available to medical students. Course work can begin the summer preceding medical school matriculation.

The programs of the School of Medicine and Health Sciences are enhanced by close association with many divisions of the university and with many federal research and clinical facilities located in the Washington area, including the National Institutes of Health.

Requirements for Entrance. The MCAT and three years of college are required. Ninety semester hours of credit applicable toward a B.A. or B.S. in an approved college are the minimal requirement, although most selected students have completed four years of college.

Required courses are:

	Sem. hrs.
Biology and/or zoology (with lab)	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
Physics (with lab)	8
English composition and literature	6

With the exception of these specific requirements, applicants are urged to follow their personal interests in developing a premedical course of study. Applicants with an undergraduate emphasis in the arts, humanities, and social sciences are welcomed.

Selection Factors. The first step in the selection procedure is an overall evaluation based on data contained in the AMCAS and supplemental applications. This evaluation screens applicants on the basis of grades (taking into account the college of origin as well as improvement in performance in later years); MCAT scores; pertinent extracurricular, research, and work experiences; and evidence of non-scholastic accomplishments. Evidence of good performance in recent, relevant course work is to an applicant's advantage. Some additional consideration is given to applicants from the District of Columbia and its metropolitan area as well as to applicants from the university's undergraduate school. The next phase of the selection procedure depends on careful examination of personal comments and letters of recommendation. The most promising applicants are then invited for a personal interview either at the school or with a regional interviewer. The last phase includes the review by the Committee on Admissions of the entire dossier. The last phases are designed to select from students who are academically well prepared those with motivational and personal characteristics that the committee considers important in future physicians. Many qualified reapplicants are accepted each year. There is no discrimination in the selection process because of race, sex, religion, age, marital status, handicap, or national or regional origin.

The 152 members of the 1989 entering class came from 70 different undergraduate schools. The mean undergraduate GPA was 3.3, although there was great variability about the average. Some other characteristics of the 1989 entering class were: *undergraduate major,* 34 percent in non-science fields; *graduate degrees,* 27 students; *gender,* 68 women; *geographic,* generally proportional to applications from across the country; *mean MCAT scores, B*-9.6, *C*-9.2, *P*-9.2, *SP*-9.3, *SA:R*-8.3, *SA:Q*-8.3.

The Committee on Admissions encourages application through the Early Decision Program. The Committee on Admissions will also identify a limited number of potentially promising students for enrollment in a decelerated first-year program; these students will be chosen from the general applicant pool and not by special application. An early identification program for GWU students that permits conditional acceptance after two years of undergraduate school is also in operation. Further information on all of these programs is available from the Office of Admissions.

Financial Aid. Information regarding financial aid will be sent with the notice of acceptance. Although responsibility for arranging the financing of a medical education must rest with the student, the financial aid officer will provide information and assistance to try to help students meet their needs. Students are not encouraged to seek part-time employment.

Because of the restrictions placed on funds, financial aid can rarely be obtained by non-U.S. citizens. This fact will have to play a role in the Committee on Admissions' deliberations on such candidates. Ability to pay expenses is not a consideration for U.S. citizens and permanent residents.

Information for Minorities. Qualified minority group applicants are invited and encouraged to apply. Under appropriate circumstances the school's supplemental application fee will be waived, and regional interviews can be arranged to help contain application costs for disadvantaged students. Tutorial assistance can be arranged for students in academic need.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants: $45
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
A tuition prepayment of $2,000 is required by July 15, 1991; refundable
Estimated number of new entrants: 150 (5 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $22,500
Student fees: $275

Information on 1989–90 First-Year Class

Number of	*D.C.*	*Other*	*Total*
Applicants	43	5,135	5,178
Applicants Interviewed	21	1,318	1,339
New Entrants*	7	145	152

*100% took the MCAT and had baccalaureate degrees.

Georgetown University School of Medicine

Dr. John F. Griffith, Executive Dean
Karen L. Pfordresher, Director, Student Services and Admissions
Paul S. Garrard, Director, Student Financial Planning

Address inquiries to:
Office of Admissions
Georgetown University
School of Medicine
3900 Reservoir Road, N.W.
Washington, D.C. 20007
(202) 687-1154

General Information. The Georgetown School of Medicine, established in 1851, is a part of the oldest Catholic and Jesuit-sponsored university in the United States. Committed to training physicians in all dimensions of the delivery of humane patient care, the School of Medicine works in association with the 535-bed Georgetown University Hospital and 12 affiliated federal and community hospitals in the Washington metropolitan area. Providing an environment that promotes training and educational opportunities, the medical center includes a $23-million Concentrated Care Center with a modern 12-room surgical suite, 24 preoperative and postoperative surgical suites, and state-of-the-art emergency, x-ray, and transplant facilities. The campus also contains a recently constructed health science library, basic and preclinical science buildings, classrooms, and laboratories.

Georgetown also offers opportunities for the overall development of its student body. The Reverend Gerard F. Yates, S.J., Memorial Field House, constructed in 1979, houses swimming facilities and jogging and multi- and single-purpose courts and offers many athletic programs. The Thomas and Dorothy Leavey Center, completed in 1988, provides a focus for faculty and student activities. It contains facilities for conferences and the performing arts and a variety of dining establishments and guest quarters.

The university is located in one of the most concentrated regions for medical research in the country. Adjacent to the hospital is the Vincent T. Lombardi Cancer Research Center, and the school is near the National Institutes of Health and other nationally prominent health care and research facilities.

Curriculum. Georgetown's four-year curriculum combines departmentally based basic science courses and laboratory work, prescribed clinical clerkships, multidisciplinary courses and conferences, and electives. Courses in the first two years focus on the development of fundamental knowledge concerning the body's normal and altered structure and functions. Small-group teaching and problem-based presentations have replaced a portion of the large class lectures.

In the third year, clinical clerkships stress the skills required to acquire and interpret patient-based data, while the fourth year further develops skills in patient management. Twenty-four weeks of electives are available during this final year, four of which may be used for vacation.

At Georgetown the grading system consists of honors, high pass, pass, and fail. A combined M.D.-Ph.D. program is available. Faculty-student review of the curriculum is an important continuing endeavor of the School of Medicine. A revised curriculum was implemented in 1986–87.

Requirements for Entrance. In general, Georgetown requires the MCAT and a minimum of three years of college (90 semester hours) for consideration of admission to the School of Medicine. The baccalaureate degree is highly desirable. The minimum specific course requirements are:

	Sem./Qtr.
Biology (with lab)	2/3
Inorganic chemistry (with lab)	2/3
Organic chemistry (with lab)	2/3
General physics (with lab)	2/3
College mathematics	2/3
English	2/3

While a solid preparation in the basic sciences is essential, a broad background in the humanities is also important.

Applicants should take the MCAT in the spring of the year they intend to apply to the School of Medicine and make sure that required courses will be completed. Georgetown allows six to eight hours of prerequisites to be taken during the application year. Applicants are cautioned that files are not reviewed by the Committee on Admissions until MCAT scores and most grades are received; therefore, a delay in the receipt of such credentials may delay consideration of an application.

Selection Factors. The Committee on Admissions selects students on the basis of academic achievements, character, maturity, and motivation. There are no geographical quotas, although some preference is given to residents of the metropolitan District of Columbia area. In rendering its decisions, the Committee on Admissions evaluates the applicant's entire academic record, performance on the MCAT, college premedical advisory committee evaluations, letters of recommendation, and personal interviews.

For the 1989 entering class, 5,062 candidates applied from over 626 undergraduate colleges. The applicants who enrolled had the following characteristics: *mean GPA*, 3.3; *undergraduate major*, 61 percent in the biological sciences, 14 percent in the physical sciences, 10 percent in social sciences, 15 percent in various humanities and other majors; *sex*, 34.2 percent women.

Georgetown requires personal interviews. These interviews are conducted on the medical center campus, and applicants are not invited to interview until all their credentials have been received and reviewed by the Committee on Admissions. Applicants are urged to submit their applications and supporting credentials as early as possible. The School of Medicine does not discriminate on the basis of race, sex, creed, age, handicap, or national or ethnic origin.

Financial Aid. Limited school-based scholarship and loan aid is available and awarded on the basis of financial need. Information on the financial status of parents is required of all students seeking school-based aid.

A financial aid information packet is distributed to all interviewed applicants. This packet contains information on many sources of financial aid, explanations of federal and private aid programs, and the application for financial aid from Georgetown.

Programs and publications are available to all students to help them establish their own debt management and personal financial planning.

Information for Minorities. In 1989 the School of Medicine had a minority enrollment, (including black American, Mexican American, mainland Puerto Rican, and Native American students) totaling 11 percent of the entering class. Questions about programs and opportunities for qualified minority applicants should be addressed to Dr. Arthur Hoyte, director, Office of Programs for Student Development and Community Affairs. The Georgetown Experimental Medical Studies (GEMS) Program is a one-year prematriculation program for qualified underrepresented minority students. Priority consideration is given to residents of the District of Columbia. For more information write or telephone Joy Williams, GEMS Program coordinator, at (202) 687-1406.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $55
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due March 15, 1991 or 2 weeks after acceptance
Deposit refundable prior to: May 15, 1991
Partial tuition prepayment due June 1, 1991
Estimated number of new entrants: 195 (15 EDP)
Starting date: Aug. 1991

Tuition per Year for 1989-90 First-Year Class

Tuition: $22,500

Information on 1989-90 First-Year Class

Number of	*D.C.*	*Other*	*Total*
Applicants	45	5,017	5,062
Applicants Interviewed	*	*	1,691
New Entrants†	10	186	196

*Data not available.
†98% took the MCAT; 100% had baccalaureate degrees.

Howard University College of Medicine

Dr. Charles H. Epps, Jr., Dean
Ann Finney, Admissions Officer
Melody D. Mitchell, Financial Aid Officer

Address inquiries to:
Admissions Office
Howard University
College of Medicine
520 W Street, N.W.
Washington, D.C. 20059
(202) 636-6270

General Information. The Howard University College of Medicine is the oldest and largest predominantly black medical school in the United States and the 36th oldest of all 126 medical schools in this country. Initially established as a medical department, the college opened in 1868 with eight students and seven faculty members. The medical department's primary goal then remains the college's today: to train students to become competent, compassionate physicians who will provide care in medically underserved communities.

In 1871, Howard University graduated its first medical class, consisting of two black men and three white men. One woman was graduated the following year. Subsequent classes throughout the College of Medicine's history have been similarly cosmopolitan in accordance with the spirit and intention of Howard University's founders. The College proudly cites its long history of training men and women of all races and ethnic origins, religions, creeds, nationalities and economic backgrounds.

The College has more than 4,000 living alumni, including approximately 35 percent of all black practicing physicians in this country. During the first half of this century, the College contributed nearly half of the black physicians in the United States.

The 500-bed Howard University Hospital was completed in 1975. It is the college's primary teaching hospital for medical students and is used for postgraduate training in the various specialties of medicine. Medical students also serve clerkships at the District of Columbia General Hospital, St. Elizabeths Hospital, Walter Reed Army Medical Center, U.S. Naval Medical Center, Washington Veterans Administration Medical Center, Greater Southeast Community Hospital, and Providence Hospital.

Curriculum. The curriculum is designed to provide a firm basis for the science and art of medicine and to provide effective integration of basic science concepts, clinical application, and research. Students are presented the essential knowledge and skills necessary for the practice of medicine in courses which are required of all medical students. In addition, time is provided in the schedule for students to pursue areas of their interest through elective courses.

The required disciplines of the first and second years include gross and developmental anatomy, histology and cell structure, biochemistry, physiology, pathology, pharmacology, medical genetics, psychiatry, biometrics and epidemiology, and microbiology. In addition to these, three interdisciplinary courses are offered in the first year: Basic Neuroscience and Introduction to Patient Care I and II. During the second year, the interdisciplinary courses are offered as Pathophysiology of Organ Systems, Infectious Diseases, and the Principles of Physical Diagnosis in Introduction to Patient Care III.

The third and fourth years consist of blocks of instruction in a continuum of clerkships and examinations for various clinical subjects. During the fourth year, opportunity is available for additional clinical or research experience through 16 or 20 weeks of required electives.

A mandatory five-year curriculum is offered to students who demonstrate during their first semester of enrollment or by the end of the neuroscience course that they are having difficulty meeting the demands of the four-year curriculum and need additional time to meet the requirements for satisfactory performance. This curriculum, which does not require additional courses, includes scheduling changes of courses in the four-year curriculum to accommodate the one-year extension.

Satisfactory performance is required in all courses for promotion and graduation. Students are required to pass Part I of the NBME examinations for promotion to the third year. Passing of Part II of the NBME examinations is required for graduation. Grades in the College of Medicine are reported as H (honors), S (satisfactory), or U (unsatisfactory).

The Early Entry Medical Education Program (EEMEP), initiated in 1971, permits undergraduates who have completed their third year to be eligible for admission to the College of Medicine. This program allows for the reduction of the traditional total years of college and medical school to seven years. Participants in the EEMEP must have completed their premedical requirements and must present above average scores on the MCAT.

A combined B.S.-M.D. program was initiated in 1974 for students enrolling in the College of Liberal Arts from high school. Both degrees may be obtained in a six-year period.

M.S. and/or Ph.D. degree programs are available in anatomy, genetics, microbiology, biochemistry, pharmacology, and physiology.

Requirements for Entrance. The MCAT is required. It is recommended that all applicants take the MCAT in the spring rather than in the fall of the year in which they apply. A minimum of 62 semester hours at an accredited U.S. or Canadian university or college is required. Course work should include:

	Sem. hrs.
Biology or zoology	8
General chemistry	8
Organic chemistry	8
General physics	8
College mathematics	6
English	6

Selection Factors. There are four major criteria used in the selection of applicants for admission to the College of Medicine: (1) character and discernible motivation for a career in medicine, (2) scholastic record, (3) results of the MCAT, and (4) letters of recommendation from preprofessional advisers and faculty. Candidates for admission and alternates are selected from those applicants who satisfy the criteria and who are most likely to serve in communities needing physician services. MCAT scores and GPAs are used for initial screening.

An invitation for an interview may be extended to an applicant after the Committee on Admissions has made a preliminary examination of the applicant's credentials and has decided that an interview is desirable.

Although the total student is evaluated, the Committee on Admissions gives strongest consideration to those who have GPAs of 3.0 and above.

There are no residence restrictions. All applicants will be evaluated regardless of their sex, race, religion, national or ethnic origin, age, marital status, or handicap. In the 1989 entering class, 76 percent were black, 17 percent were foreign, and 51 percent were women.

Financial Aid. Approximately 85 percent of the students enrolled in the College of Medicine receive some sort of financial assistance. Students with demonstrated need may receive school-based scholarships and loans, and those who qualify are recommended for federally-guaranteed loans. Some merit awards are offered to outstanding entering freshmen and for exceptional academic performance in the medical curriculum.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee after screening: $25
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 30 days
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 100
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $8,650

Student fees: $848

Information on 1989-90 First-Year Class

Number of	*D.C.*	*Other*	*Total*
Applicants	49	2,794	2,843
Applicants Interviewed	12	400	412
New Entrants*	3	87	90

*100% took the MCAT; 93% had baccalaureate degrees.

University of Florida
College of Medicine

Dr. Allen H. Neims, Associate Vice President for Clinical Affairs and Dean, College of Medicine
Dr. Hugh M. Hill, Associate Dean for Student Affairs
Dr. Peter F. Gearn, Chairman, Medical Selection Committee

Address inquiries to:
Chairman, Medical Selection Committee
Box J-216
J. Hillis Miller Health Center
University of Florida
College of Medicine
Gainesville, Florida 32610
(904) 392-3071

General Information. The College of Medicine, a component college of the University of Florida Health Science Center, admitted the first class in September 1956. Situated at the southeast corner of the 2,000-acre campus of the University of Florida, the College of Medicine enjoys the benefit of strong ties with other programs within the University as well as a close relationship to the other Health Science Center colleges (dentistry, heatlh realted professions, nursing, pharmacy and veterinary medicine). The University of Florida Health Science Center complex also includes the Chandler A. Stetson Medical Science Building, the Communicore Building (library, teaching laboratories, and classrooms), the Academic Research Building, the Shands Hospital, and the Veterans Administration Medical Center, located across the street from the Health Science Center. Formal educational affiliations have also been established in Jacksonville and Orlando.

Curriculum. The curriculum is divided into three blocks of time—preclinical basic sciences (first two years), clinical clerkships (third year) and postclerkship electives and required courses (fourth year). The required clinical clerkship rotations provide the students with experiences in eight general areas of medicine—anesthesiology, community health, medicine, neurology, psychiatry, obstetrics and gynecology, surgery, and pediatrics. The fourth year includes four weeks of required rotations in surgery and medicine and four weeks of required advanced pharmacology. The remainder of the senior year is devoted to elective course work. Students' performance in academic course work will be evaluated by letter grades. However, some courses use a pass-fail system.

During the first summer and the elective period, students may choose involvement in biomedical or clinical research. Students may also delay a clerkship rotation to the fourth year.

Students may elect the option of taking the preclinical basic basic science course over a three-year period. This option might provide an opportunity for research or be advantageous to students from non-science or disadvantaged backgrounds and who would benefit from a more moderately paced schedule.

Medical Scientist Training Program (M.D./Ph.D.). This program offers an opportunity for students who are motivated toward an academic career in the medical sciences. The M.D./Ph.D. program is designed to be flexible. Candidates for this program must satisfy admission requirements for the college of medicine and the graduate school.

Junior Honors Medical Program. Students accepted into the Junior Honors Medical Program at the end of their second year of college enroll in basic medical science seminars as well as electives during their third year. They become full-time medical students during their fourth year and receive a B.S. degree at the end of their fourth year from the College of Arts and Sciences. Although primarily intended for students in their second year at the University of Florida, applications from other Florida residents and nonresidents will be considered. Further information may be obtained by writing to the assistant dean for preprofessional education at the College of Medicine.

Requirements for Entrance. The MCAT is required and must be taken at a time that enables scores to be received by the admissions officer prior to the December application deadline to be considered for admission the following August. The student should have completed the requirements for a bachelor's degree at an accredited college or university. In exceptional instances students upon whom the degree has not been conferred may be admitted. College work must include:

	Sem. hrs.
Biology (with lab)	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8

Selection Factors. Applicants will be appraised on the basis of personal attributes, academic record, evaluation of past activities, the MCAT, and personal interview. The school does not discriminate on the basis of race, sex, creed, or national origin. Although Florida residents are given preference in admission, a limited number of nonresidents are considered each year. Nonresident applicants must demonstrate superior qualifications. The school will continue to seek minority applicants and strongly encourages members of minority groups to apply regardless of residence.

Accepted students for the 1989 entering class had the following characteristics: *mean GPA*, 3.6; *sex*, 48 percent women; *minorities*, 6 percent black, 4 percent Hispanic, 5 percent Asian/Pacific Islander.

Financial Aid. Every attempt is made to assist enrolled students who need financial aid. A limited number of scholarships and loan funds are available to students in need, and applications are accepted at any time. Student summer and school-year research fellowships are available. Loans and scholarships are available to qualified students in financial need through the Health Professions Educational Assistance Act.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee after screening: $15
Oldest MCAT scores considered: 1977
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 85
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees
  Resident: $5,107
  Nonresident: $12,341

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	646	860	1,506
Applicants Interviewed	270	20	290
New Entrants*	82	3	85

*100% took the MCAT and had baccalaureate degrees.

Florida State-Florida A&M-University of West Florida Program in Medical Sciences

This program is a cooperative venture in medical education between the three state universities in the Florida Panhandle and the University of Florida College of Medicine in Gainesville. In this program, undergraduate students at Florida State University (FSU), Florida A&M University (FAMU), or the University of West Florida (UWF) can combine work toward a bachelor's degree with courses in basic medical sciences equivalent to the first year of the curriculum at the College of Medicine. Following the undergraduate years, the first-year of medical school is taken at FSU. Students will then transfer to Gainesville as second-year students to complete their work toward the M.D. degree. For further information write: Program in Medical Sciences, Florida State University, Tallahassee, Florida 32306.

University of Miami
School of Medicine

Dr. Bernard J. Fogel, Vice President for Medical Affairs and Dean, School of Medicine
Barbara L. Binns, Associate Dean for Admissions
Laura L. Horsley, Director of Student Financial Assistance

Address inquiries to:
Office of Admissions
University of Miami
School of Medicine
P.O. Box 016159
Miami, Florida 33101
(305) 547-6791

General Information. The University of Miami School of Medicine, the first accredited medical school in Florida, opened in 1952. In the ensuing years, the school has experienced remarkable growth because of the dedication and devotion of faculty, students, and staff.

The School of Medicine has become the impetus behind one of the largest medical centers in the nation located in the heart of Miami. Included are the school's major teaching facility, the Rosenstiel Medical Sciences Building; Kathleen and Stanley Glaser Medical Research Building; Jackson Memorial Hospital; the Veterans Administration Medical Center; the Bascom Palmer Eye Institute, which includes the McKnight Visual Research Center and the Ann Bates Leach Eye Hospital; the Mailman Center for Child Development; UM Hospitals and Clinics; Calder Memorial Library; the Ambulatory Care Center; the Magnetic Resonance Imaging Center; and the Fox Cancer Research Center. Under construction is the Sylvester Cancer Clinic and the R. Bunn Gautier Molecular Biology Building. More than 2,000 beds are available for clinical teaching in the UM-JMH Medical Center.

Curriculum. The curriculum is a well balanced, educational program, and its goal is to educate men and women to be physicians of knowledge and compassion. During the first two years half of the time is devoted to small-group discussions and laboratory sessions and the other half to regular classroom lectures. Some patient and hospital exposure is also incorporated into the first year. There are review periods before all examinations, and adequate preparation time is allotted.

Following the sophomore year, students enter a two-year clinical training period. A 48-week required clinical core is followed by 34 weeks of electives in clinical, basic science, and research areas. Although certain requirements are necessary, the curriculum allows the student a flexible learning structure in which to explore the various facets of medicine.

Four pathways lead to the doctor of medicine degree. One is the traditional four-year M.D. curriculum as described above. The new Physician Scientist Program, which leads to both the M.D. and the Ph.D. degrees, is designed specifically for students who seek careers in academic medicine and biomedical research and may be completed in either six or seven years. The Medical Scholars Program in cooperation with the College of Arts and Sciences of the University of Miami admits exceptional students to the medical school after completion of their sophomore year. The junior year is spent completing undergraduate requirements before beginning the regular four-year M.D. curriculum. The Honors Program in Medical Education leads to both the B.S. and M.D. degrees, which one may earn in a six-year period after being admitted to the program directly from high school.

The aim of all of these programs is to provide students with the background they need to become good clinicians with a scholarly understanding of the basic medical sciences.

Requirements for Entrance. The School of Medicine accepts students who have completed a minimum of 90 semester hours of college work in an accredited institution, exclusive of courses in military science or physical education, and the MCAT. Courses specifically required are:

	Semesters
English	2
Chemistry (with lab)	2
Organic chemistry (with lab)	2
Physics (with lab)	2
General biology or zoology	2
Other science courses	2

These may be distributed in the biological sciences, chemistry, physics, or mathematics. A course in biochemistry is recommended.

Advanced placement credits may be used as part of the 90 semester hour total, but the specific requirements listed above must be graded credits.

Since a successful physician is a scientist and a humanist, students are expected to excel in both areas. Thus, in addition to scientific training, students should display excellence in the humanities and social sciences, and no special consideration is given to applicants who take more science courses than the stated minimum. A broad educational background is encouraged. All students are advised that it is in their best interest to file the application early and to make sure that it is completed as rapidly as possible.

Selection Factors. The Committee on Admissions weighs such factors as scholastic performance, results of the MCAT, moral character, and motivation. Applications from women and socioeconomically disadvantaged candidates are especially encouraged, as are those from applicants who have had several years of work or graduate education experience. It has long been a policy of the school to select students of varying backgrounds in order to satisfy the many needs of medicine. Applicants' files are reviewed without regard to race, creed, sex, national origin, age, or handicap. A personal interview is necessary before final consideration by the Committee on Admissions. These interviews will be arranged at the initiative of the School of Medicine.

Financial Aid. The school has funds available for financial assistance to students; these can be awarded either for academic promise or proven financial need and are available to students in all classes. Information concerning loans or scholarships may be obtained by writing to the director of student financial assistance. First-year students are advised not to attempt outside employment during the academic year.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: July 2, 1990
  Latest date: Dec. 31, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $50, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 125
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $14,915
Student fees: $50

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	539	139	678
Applicants Interviewed	353	21	374
New Entrants*	123	2	125

*100% took the MCAT; 83% had baccalaureate degrees.

University of South Florida
College of Medicine

Dr. Randolph Manning, Associate Dean,
Student Affairs
Jay S. Layman, Director of Admissions
Carolyn Nicolosi, Director of Student Affairs

Address inquiries to:
Office of Admissions
Box 3
University of South Florida
College of Medicine
12901 Bruce B. Downs Boulevard
Tampa, Florida 33612-4799
(813) 974-2229

General Information. The University of South Florida College of Medicine at Tampa was created by the Florida legislature in 1965. The charter class of 24 students was admitted in September 1971. The present facilities accommodate an entering class of 96 students. The College of Medicine has been constructed on a 67-acre site on the University of South Florida (USF) campus adjacent to the 720-bed James A. Haley Veterans' Hospital.

The College of Medicine is part of the Health Sciences Center and includes a medical science area, auditorium, cafeteria, medical library, medical clinics, and colleges of public health and nursing. Clinical instruction is in large part based in Tampa at the USF Medical Clinics at the Medical Center, Tampa General Hospital, the James A. Haley Veterans Hospital, St. Josephs' Hospital, Tampa Unit Shriners Hospitals for Crippled Children, H. Lee Moffitt Cancer Center and Research Institute, USF Psychiatry Center, and Humana Women's Hospital. Clinical instruction is also given in St. Petersburg at All Childrens' Hospital, Bayfront Medical Center, and the Bay Pines Veterans Administration Medical Center and in Orlando at the Orlando Regional Medical Center.

Curriculum. The four-year program includes two years of instruction in the basic medical sciences; a clerkship program providing clinical experience in medicine, surgery, obstetrics and gynecology, pediatrics, and psychiatry; and an academic period of multiple electives in clinical and basic medical sciences. The student's performance is evaluated by each department at the end of each course period and recorded on the transcript as H (honors), PC (pass with commendation), P (pass), and F (failure).

Premedical Honors Program. This is an integrated program in which the College of Medicine will reserve certain places in the first-year medical class for superior students who satisfy the requirements for both University Honors and admission to the study of medicine. There is a seven-year or "early admission" track and also an eight-year track designed especially for nonscience majors. All questions concerning the premedical options in University Honors should be addressed to: Director of Honors, CPR 273, University of South Florida, Tampa, Florida 33620; the telephone number is (813) 974-3087.

Requirements for Entrance. The MCAT is required. A minimum of three years of college or university work at a fully accredited institution is mandatory. Although the baccalaureate degree is desirable, a three-year applicant with a superior academic record and demonstrated maturity may be considered. Each applicant must have completed at least 90 semester hours of accredited college work, exclusive of military training and physical education, including the following subjects:

	Semesters
General biology (with lab)	2
General chemistry (with lab)	2
Organic chemistry (with lab)	2
General physics (with lab)	2
Mathematics	2
English	2

Courses recommended but not required include: physical chemistry or biological chemistry, embryology, cell biology, comparative anatomy, genetics, and statistics.

CLEP credit in required premedical courses is strongly discouraged. Individuals who do receive credit by CLEP in basic premedical courses are advised to take a full year of course work in the same area at the more advanced level.

Applicants are strongly urged to take the MCAT in the spring of the year of application and to have their basic science requirements completed at the time of application. No applicant will be considered for admission until the application materials are complete and received in the Admissions Office. Applications from individuals who wait to take the MCAT in the spring of the year in which they anticipate matriculating will not be considered.

Selection Factors. The selection of students of medicine is based on character, integrity, motivation, academic achievement, and emotional maturity and stability. In addition, course load and types of courses taken will be evaluated and will constitute a factor in the overall evaluation.

Although the selection process is essentially competitive, with evaluation of students by their college faculty being a significant factor, there are some general guidelines on suitability of an applicant to the college. Because the University of South Florida is a state institution, preference is given to Florida residents. In those instances where residency is in question, for tuition purposes, an applicant is requested to submit a Declaration of Domicile. Nonresidents are discouraged from applying unless they present outstanding scores on the MCAT and an excellent GPA from an accredited four-year institution. A limited number of out-of-state applicants may be accepted.

Applicants requesting an application should clearly indicate whether or not they are Florida residents.

To be competitive, Florida residents should have a GPA of 3.0 or better on a 4.0 scale and a score of 8 or better on each category of the MCAT.

The 1989 entering class profile was: *mean GPA,* 3.5; *mean MCAT scores, B*-9.8, *C*-9.4, *P*-9.4, *SP*-9.5, *SA:R*-8.6, *SA:Q*-8.8; *minorities,* 24 percent; *sex,* 36 percent female.

The Admissions Office may at its discretion invite the applicant to come for a personal interview. An invitation for an interview means only that the initial evaluation is sufficiently high to warrant further consideration by the Committee on Admissions.

Eligibility for admission will be determined without regard to race, creed, sex, age, religion, national origin, or handicap.

Financial Aid. The financial status of applicants does not affect their acceptance. Limited funds are available for loans and scholarships.

First-year students are not permitted to engage in outside employment. There are employment opportunities in Tampa and the surrounding area for spouses.

Questions may be addressed to Michele Williamson, acting director of financial aid, by telephoning (813) 974-2068.

Information for Minorities. Events, activities, programs, and facilities of the University of South Florida are available to all without regard to race, sex, religion, national origin, Vietnam or disabled veteran status, handicap, or age, as provided by law and in accordance with its respect for personal dignity. Qualified minority applicants are strongly encouraged to apply regardless of residence.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to formal applicants: $15
Oldest MCAT scores considered: 1980
Does have Early Decision Plan (EDP)
  For Florida residents only
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 96 (29 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $5,013
  Nonresident: $12,247

Student fees: $117

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	565	0	565
Applicants Interviewed	217	0	217
New Entrants*	96	0	96

*100% took the MCAT and had baccalaureate degrees.

Emory University School of Medicine

Dr. Jeffrey L. Houpt, Dean
Dr. Dorothy E. Brinsfield, Executive Associate Dean
Dr. John H. Stone, Associate Dean and
Director of Admissions

Address Inquiries to:
Medical School Admissions, Room 303
Woodruff Health Sciences Center
Administration Building
Emory University
School of Medicine
Atlanta, Georgia 30322
(404) 727-5660

General Information. The Emory University School of Medicine was founded in 1915, resulting from several reorganizations dating from 1854 when the Atlanta Medical College was founded. Students spend the first two years primarily on the university campus. The last two years are spent in the school's teaching hospitals, in which there are more than 3,000 beds and large outpatient clinics.

Curriculum. The curriculum is intended to lay a comprehensive foundation for a career in practice, teaching, research, or other medical areas. The first two years consist primarily of basic health sciences and incorporate multimedia teaching aids. Courses are often interdisciplinary, for example, neurobiology, molecular and human genetics, and human values in medicine. In the second year, students complete their basic science background and spend a major portion of their time in an integrated course in clinical methods which extends broadly into the various clinical fields. The third year is devoted exclusively to instruction in all major clinical subjects. About 55 percent of the fourth year is spent in required clinical clerkships, with the balance being devoted to elective work which encompasses a large variety of studies at both local and distant sites.

A combined M.D./Ph.D. degree program is available for highly qualified students interested in careers in academic medicine. This six- to seven-year program provides the indepth clinical experience and biomedical research training necessary for future medical scientists. A master's of public health (M.P.H.) degree is also available through a joint enrollment program for the regular four-year medical student.

Requirements for Entrance. The MCAT and a minimum of three years of college are required. Ninety semester or 135 quarter hours in arts and sciences at an institution accredited by its regional association must be completed to be eligible for enrollment.

The premedical program should be aimed toward a balanced liberal education and should ensure thorough grounding in the stated requirements. Majors in the sciences or nonsciences are equally acceptable. The latter must show competence in the natural sciences and mathematics. Majors in the natural sciences or mathematics should always include subjects of broad educational value in their premedical curricula.

Specific minimum requirements are:

	Sem./Qtr. hrs.
Biology (with lab)	8/12
Inorganic chemistry (with lab)	8/12
Organic chemistry (with lab)	6/10
Physics (with lab)	8/12
English	6/10
Humanities, social and/or behavioral sciences	18/27

Biochemistry is highly recommended.

Undergraduate degree credit that has been granted to the student on the basis of CLEP will be accepted provided (1) the credit appears on the official transcript and (2) CLEP credits are not the sole fulfillment of any specific course requirement listed above. CLEP credit in excess of 25 percent of a student's total undergraduate credit will not be accepted.

Selection Factors. Approximately 50 percent of the entering class positions are filled by Georgians. Students are selected on the basis of scholastic achievement, fitness and aptitude for the study of medicine, and personal qualifications, without regard to race, sex, sexual orientation, age, handicap, creed, veteran status, or national origin. All applicants must (a) present a level of scholarship above average (GPA of 3.3 or above is recommended for non-Georgians); (b) take the MCAT preferably in the spring but no later than the fall of the year of application; (c) apply through AMCAS and submit the required Emory supplemental application form and fee (this form is sent immediately upon receipt of the AMCAS application); (d) have the required evaluation(s) submitted; and (e) appear for a personal interview before the

Admission Committee. Interview is by invitation and is conducted only at Emory University. Students from foreign schools must have completed at least one year of academic work in an accredited U.S. or Canadian institution. Advanced standing is not given for work completed in other professional or graduate schools. It is anticipated anyone enrolled in a graduate degree program will have completed all required work for the degree by the date of matriculation.

The 1989 class had the following credentials at the time of application: *mean GPA*, 3.50; *mean MCAT scores*, *B*-9.7, *C*-9.6, *P*-9.7, *SP*-9.6, *SA:R*-9.0, *SA:Q*-9.1; *undergraduate major*, 42 percent in biology, 16 percent in chemistry, 21 percent in humanities and social/behavioral sciences, 9 percent in a nonscience combined with biology or chemistry, and 12 percent in other disciplines. Other characteristics of the entering class of 112 students were: *sex*, 35 percent women; *minorities*, 24 percent.

Financial Aid. A limited number of scholarships and loans are available through the Financial Aid Office of Emory University. Approximately 50 percent of all the enrolled medical students receive scholarships and loans through Emory University. Most scholarships and loans are awarded on the basis of documented financial need. Application information may be requested prior to acceptance from the university Financial Aid Office. Approximately 10 percent of the students receive U.S. Armed Forces scholarships. A limited number of highly qualified students in the first-year class are awarded half tuition merit scholarships for each of the four years of medical school.

Six Robert Woodruff Fellowships, not based on need, are awarded yearly to entering students. Additional information on this competitive, merit-based program is available from the Medical School Admissions Office.

Information for Minorities. Emory University School of Medicine is strongly committed to increasing opportunities for minority students. The Office of Minority Affairs works in conjunction with the Admission Committee and the Office of Student Affairs in the recruitment, selection, and retention of qualified minority students. Further inquiries may be addressed to Dr. André L. Churchwell, director of minority affairs.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Oct. 15, 1990
School application fee to all applicants: $40
Oldest MCAT scores considered: 1977
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Mid-March 1991
Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $50, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 110
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $13,700

Student fees: $390

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	294	2,574	2,868
Applicants Interviewed	145	540	685
New Entrants*	56	56	112

*100% took the MCAT and had baccalaureate degrees.

Medical College of Georgia School of Medicine

Dr. Gregory L. Eastwood, Dean
Dr. Mary Ella Logan, Associate Dean for Admissions
Cheryl W. O'Keeffe, Director of Student Financial Aid

Address inquiries to:
Associate Dean for Admissions
School of Medicine
Medical College of Georgia
Augusta, Georgia 30912
(404) 721-4792

General Information. The School of Medicine of the Medical College of Georgia was founded in 1828 and is the nation's 13th oldest medical school. The institution is a separate college under the Georgia Higher Education System and consists of five schools: medicine, allied health, dentistry, graduate studies, and nursing.

The Medical College of Georgia Hospital and Clinics is the primary clinical teaching facility. Other hospitals in Augusta and in cities throughout the state have affiliate agreements with the Medical College of Georgia to provide clinical teaching facilities.

Curriculum. During the first year (Phase I), students study the structure and functions of the human body through courses in anatomy, histology, embryology, biochemistry, neuroscience, and physiology. Courses in humanities and behavior sciences related to the social, ethical and behavior aspects of the individual. Microbiology is included in the first year curriculum. Contact with patients begins with physical diagnosis during the first year.

The second year (Phase II) points toward clinical medicine with courses in pathology, endocrinology, pharmacology, genetics, community medicine, anesthesiology, and psychiatry. Introduction to Clinical Medicine and Physical Diagnosis II provide a didactic basis for the clinical clerkships.

Interdepartmental cooperation and clinical relevance are stressed throughout the first two years. During part of both the first and second years, two afternoons a week are assigned for electives.

During Phase III, students are required to take 18 months of academic work, which must include 12 months of basic clerkships in the Departments of Medicine, Surgery, Obstetrics and Gynecology, Family Medicine, Pediatrics, Surgery, Neurology and Neurosurgery. The remaining 6 months consist of elective courses.

Students are required to take and pass Part I of NBME at the end of their second year and Part II of the NBME prior to graduation.

Requirements for Entrance. The MCAT and three years of undergraduate college work leading to a baccalaureate degree in an institution accredited by its regional association are required. However, preference is given to students who will have completed the baccalaureate degree prior to enrollment at the School of Medicine.

College work must include:

	Years
Biology (with lab)	1
Inorganic chemistry (with lab)	1
Advanced chemistry (with lab) Must include one semester or two quarters of organic chemistry.	1
Physics (with lab)	1
English Sufficient to satisfy baccalaureate degree requirements.	

Biochemistry is highly recommended.

These required courses must be taken on a letter/number grading system (not pass/fail) if at all possible.

Selection Factors. Applicants for admission to the School of Medicine are considered on the basis of academic ability and achievement; scores on the MCAT; and assessment of individual potential for meeting society's health care needs as evaluated by the premedical adviser, two personal references, and interviews with Medical College of Georgia faculty.

Preference is given to residents of Georgia. A maximum of 5 percent of the entering class may be nonresidents of Georgia. Nonresidents who wish to apply should have a minimum GPA of 3.5.

Early Decision Program applicants must take the MCAT prior to making application. All other applicants must take the MCAT no later than the fall of the year application is made.

The Admissions Committee selects the applicants to be invited to interviews by reviewing each application. These interviews are with members of the Admissions Committee and Medical College of Georgia faculty who aid in assessing the applicant's personality, motivation, and ability to make the adjustments necessary for the successful study of medicine.

Students who did not receive at least the last two years of their undergraduate education in an accredited U.S. or Canadian institution cannot be considered. Advanced standing is not given for work completed in professional or graduate schools other than medical schools.

The Medical College of Georgia does not discriminate on the basis of race, sex, creed, or national origin in its admissions process.

Financial Aid. The Office of Financial Aid coordinates the programs of assistance which are available to medical students.

An applicant's financial status does not affect acceptance for admission. Information and applications may be obtained by writing the Office of Financial Aid.

Information for Minorities. The School of Medicine at the Medical College of Georgia seeks to enroll qualified minority group students. One of the primary recruiting mechanisms is a summer program designed for undergraduate college students who show academic promise and desire to study medicine. Students may apply for this program by writing to the Office of Minority Student Affairs or to Dr. Thomas F. McDonald, program director and associate dean.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee: None
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  For Georgia residents only
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 21 days
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $50, due with response to acceptance offer
Deposit refundable prior to: Class registration date
Estimated number of new entrants: 180 (45 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $3,789
  Nonresident: $11,367

Student fees: $218

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	469	277	746
Applicants Interviewed	373	33	406
New Entrants*	172	8	180

*100% took the MCAT; 99.5% had baccalaureate degrees.

Mercer University School of Medicine

Dr. W. Douglas Skelton, Dean and Provost for Medical Affairs
Dr. Roger W. Comeau, Associate Dean for Admissions and Student Affairs
Youvette D. Hudson, Associate Director for Financial Aid

Address inquiries to:
Office of Admissions and Student Affairs
Mercer University
School of Medicine
Macon, Georgia 31207
(912) 752-2524

General Information. Mercer University School of Medicine (MUSM) admitted its charter class in August 1982. The school was established to educate students to become primary care physicians for practice in medically underserved and rural areas of Georgia. The program's educational format is that of problem-based, student-centered learning.

The newly constructed medical education building is located on the campus of Mercer University and serves as the primary center for learning. In addition to multiple self-instructional facilities, it houses the Center for Health Care, a 40-room ambulatory care facility. The Medical Center of Central Georgia serves as the primary affiliate hospital. Affiliation agreements are being drafted with several rural hospitals throughout Georgia.

Curriculum. The first two years are divided into three phases (A, B, C) of varying lengths. While the major emphasis during these phases is placed on the acquisition and practical application of basic science knowledge, there are two other programs which are designed to prepare the students for contact with patients, private practices, and communities.

The Biomedical Problems Program is the educational vehicle for motivating students to obtain and apply the basic scientific knowledge germane to the practice of medicine. The onus of gathering this knowledge is on the individual student through a program of self-directed learning. The application occurs in small-group tutorials in which specific cases are discussed.

The Clinical Skills Program runs through Phase C and has three components. In the Community Office Practice Program (COPP), students are afforded the opportunity to observe and participate in the office of an accomplished primary care physician. During this time they practice the skills they are developing in other parts of the program. Interviewing Skills provides encounters with persons who are trained to portray specific behavioral roles and give constructive feedback to the students. These sessions train the students to recognize different behaviors, establish communication, and obtain clinically useful information. The Physical Diagnosis Program trains the students in general and systems specific history-taking and physical examinations. These skills are practiced on simulated patients and in the COPP. As much as possible, this program parallels the cases in the Biomedical Problems Program.

The Community Science Program familiarizes students with a primary care practice in rural Georgia, while educating them to the health needs of individuals, families, and communities. This program extends throughout the four years culminating in an 8-week rural clerkship in Phase E (year 4).

Phase D (year 3) consists primarily of the Clerkship Program, which has five clinical rotations: internal medicine, surgery, pediatrics, obstetrics/gynecology, and family medicine. In addition, there are weekly programs in radiology, psychiatry, and basic science.

The fourth year (Phase E), while predominantly an elective year, has two required programs in addition to the rural clerkship. These are an acute or critical care clerkship and a psychiatry clerkship.

Requirements for Entrance. The MCAT and the equivalent of three academic years or a minimum of 90 semester hours in an approved college or university are required for admission. Students are advised to balance their work in the biological sciences with courses in the social sciences and humanities. In addition, they are urged to follow their own inclinations in choosing a subject to pursue as a major. Required courses are:

	Years
Biology (with lab)	1
General or inorganic chemistry (with lab)	1
Organic chemistry or organic/biochemistry sequence (with lab)	1
General physics (with lab)	1

Selection Factors. The Admissions Committee accepts applicants who show promise of learning effectively in Mercer's curriculum and who show strong potential of practicing primary care medicine in rural and underserved areas of Georgia.

In addition to the AMCAS application, a supplementary application is required. This application has a $25 fee and requests: two letters of recommendation or one premedical committee evaluation, a personal history (a chronological list of residences and activities since the beginning of high school), certification of Georgia residency, and a list of the required premedical courses.

Interviews are by invitation only and are held at the medical school. In making the final decisions for acceptance or rejection, the Admissions Committee considers all criteria. The committee does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

The 42 students that matriculated in 1989 consisted of 22 men and 20 women; 4 students were minorities, and the average age was 26.

Financial Aid. Financial aid in the form of loans and scholarships is available. Awards are made on the basis of need and merit. Although acceptance to MUSM is not based on an applicant's ability to pay, the responsibility for adequate funding rests with the student. The student affairs officer conducts financial management conferences and assists students in obtaining needed support. A MUSM Faculty-Staff Emergency Loan Fund for students is also available.

Information for Minorities. The school is committed to the recruitment of qualified individuals from underrepresented groups and disadvantaged backgrounds.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants: $25
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  For Georgia residents only
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 42 (2 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees: $12,960

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	292	233	525
Applicants Interviewed	153	0	153
New Entrants*	42	0	42

*100% took the MCAT and had baccalaureate degrees.

Morehouse School of Medicine

Dr. Dewitt Alfred, Dean and Vice President for Academic Affairs
Dr. Angela Walker Franklin, Assistant Dean for Student Affairs
Cynthia Handy, Director, Student Fiscal Affairs

Address inquiries to:
Admissions and Student Affairs
Morehouse School of Medicine
720 Westview Drive, S.W.
Atlanta, Georgia, 30310-1495
(404) 752-1650

General Information. Morehouse School of Medicine is one of three medical schools in the nation founded by historically black institutions and is the first such medical school begun in this century. The School of Medicine admitted its first students to a two-year basic medical science curriculum in September 1978. The inaugural M.D. degree class graduated in May 1985.

Basic science teaching facilities are located in the lecture halls and multidisciplinary laboratories of the Basic Medical Sciences Building, which also houses research laboratories, preclinical departments, and administrative offices. The newest campus facility, dedicated in May 1987, houses clinical and preclinical departments, research laboratories, study areas, and the library.

Clinical instruction takes place in affiliated hospitals and clinics, including Grady Memorial Hospital, Southwest Community Hospital, and Tuskegee Veterans Administration Medical Center (Tuskegee, Alabama). The school also administers the Area Health Education Center Program.

Curriculum. An educational experience is offered which focuses both on scientific medicine and on meeting more effectively the primary health care needs of underserved inner city and rural patients. The concept of the patient as a whole person is fostered by means of a variety of teaching experiences that relate social, environmental, emotional, and cultural factors to medical disorders.

The first two years of the curriculum emphasize an understanding of the principles, concepts, and major factual background of the basic medical sciences. Exposure to clinical medicine begins in the first year through assignment to a preceptor and increases in the second year with introduction to clinical medicine. Clinical education is continued through core clerkships during the third year taught in cooperation with Emory University School of Medicine. The fourth year includes required clerkships in medicine, surgery, pediatrics, and family practice and 20 weeks of electives. Major strengths of the curriculum include small class size, a highly diversified faculty, and courses that are taught by departmental and/or interdisciplinary faculty.

All students are required to pass Part I and Part II of the NBME examinations for promotion and graduation respectively. Student performance is evaluated primarily by letter grade. Promotion into the next year's class is recommended by the Student Academic Progress and Promotions Committee.

First-year classes begin in mid-July with a required summer program. Learning resources and other support services are available to all students throughout their four years.

Requirements for Entrance. The MCAT and three years (at least 90 semester hours or 135 quarter hours) of accredited college work are required. It is highly recommended that the MCAT be taken in the spring of the year in which the application is made. Over the years, it has been exceptional for a student to matriculate without a baccalaureate degree.

The faculty has no preference as to the major field of undergraduate study; students should determine their fields of major study according to their personal interest. Applicants are expected to present a sound, well balanced academic background with evidence of competency in the stated requirements. Specific minimum requirements are:

	Sem./Qtr. hrs.
Biology (with lab)	8/12
Inorganic or general chemistry (with lab)	8/12
Organic chemistry (with lab)	8/12
Physics (with lab)	8/12
College mathematics	6/10
English (including composition)	6/10

Selection Factors. Selection of students for admission is made by the Committee on Admissions after careful consideration of many factors. These include MCAT scores, the undergraduate academic record, the extent of academic improvement, balance and depth of academic program, difficulty of courses taken, and other indications of maturation of learning ability. Additional factors considered by the committee include the nature of extracurricular activities, hobbies, the need to work, research projects and experiences, evidence of activities which indicate concurrence with the school's mission, and evidence of pursuing interests and talents in depth. Finally, the committee looks for evidence of those traits of personality and character essential to success in medicine: compassion, integrity, motivation, and perseverance.

All information available about each applicant is considered without assigning priority to any single factor. Students are admitted on the basis of individual qualifications regardless of sex, age, race, creed, national origin, or handicap. Preferential consideration is given to qualified applicants who are residents of the states of Georgia, New York, and Alabama. However, all well qualified applicants are encouraged to apply.

Upon receipt of the AMCAS application, the applicant will be invited to submit a supplementary application and letters of evaluation. After review of all submitted materials, applicants who are competitive in this stage of the admissions process are invited to Atlanta for a personal interview. Interviews are arranged only by invitation of the Committee on Admissions.

Financial Aid. A broad financial aid program is available. In addition to federally insured loan programs, a number of scholarships and loans are available. Scholarships and loans are awarded on the basis of documented financial need as determined by the College Scholarship Service needs analysis system (see Chapter 6). Accepted applicants are eligible to apply for financial aid to the Office of Student Fiscal Affairs. Approximately 87 percent of the students receive some form of financial aid during a part or all of their four years of study. Students are discouraged from accepting outside employment because of the lack of available time during a heavy academic schedule.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee after screening: $40
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  For underrepresented minority applicants only
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 32 (1 EDP)
Starting date: July 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $12,075

Student fees: $1,155

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	169	1,081	1,250
Applicants Interviewed	63	98	161
New Entrants*	19	13	32

*100% took the MCAT and had baccalaureate degrees.

University of Hawaii
John A. Burns School of Medicine

Dr. Christian L. Gulbrandsen, Dean
Dr. James W. Linman, Assistant Dean for Admissions
Marilyn M. Nishiki, Admissions Officer/Registrar

Address inquiries to:
Office of Student Affairs
University of Hawaii
John A. Burns School of Medicine
1960 East-West Road
Honolulu, Hawaii 96822
(808) 948-8300

General Information. The University of Hawaii John A. Burns School of Medicine is part of the College of Health Sciences and Social Welfare, which also includes schools of public health, nursing, and social work. The School of Medicine is based on the Manoa campus of the university in Honolulu and has some elements at nearby Leahi Hospital. It also has teaching facilities in 10 affiliated community hospitals throughout the state.

Curriculum. The basic medical sciences are taught in a problem-based curriculum during the first two years; about 30 percent of the two years is concurrently devoted to clinical work, including the principles of history-taking and physical diagnosis, clinical genetics, behavioral science, and community medicine. For some students the program of the first two years may be extended over three years, permitting more time for independent study or preparation for an M.S. or Ph.D. degree in the basic sciences.

The third year is composed of 44 weeks of required clerkships (medicine, surgery, obstetrics-gynecology, pediatrics, and psychiatry). During the fourth year 39 weeks of clerkships in emergency medicine, surgical specialties, family practice preceptorship, advanced medicine, and electives are required.

Special features of the program include: an emphasis on primary care medicine, tropical medicine, and cross-cultural psychiatry; clinical training in community hospitals (by full-time faculty); interdisciplinary training in community medicine together with students of public health, nursing, and social work; and opportunities for preceptorships in rural areas of the Hawaiian Islands and other areas of the Pacific Basin.

An honors/credit/no credit grading system is used along with individual evaluations by faculty of student performance on clinical rotations.

Requirements for Entrance. The MCAT and at least 90 college credits are required. Course work must include:

	Sem. hrs.
Biology or zoology (with lab)	8
Chemistry (with lab) Must include 8 sem. hrs. of organic chemistry.	12–16
Physics (with lab)	8

These courses should be vigorous and the type acceptable for students majoring in these areas. Other science courses are not required. Although many students will take upper level science courses out of interest or to fulfill the requirements of a major, breadth of education in the liberal arts is of vital importance, and work in the humanities is strongly advised. Applicants also must be fully competent in reading, speaking, and writing the English language.

Selection Factors. All applicants are considered without discrimination as to age, sex, race, creed, national origin, or handicap. The school admits 48 students to its regular freshman class and 8 students to a special opportunity program for disadvantaged students each year. Selection depends upon the prospective medical student's character, scholarship, ideals, motivation, and aptitude. An evaluation of what the potential student might contribute to the health profession in the Pacific is an integral part of the selection process. All applicants are asked to explain why they are interested in obtaining their medical education at the University of Hawaii. For the limited number of applicants who reach a secondary screening level, interviews are arranged.

The 1989 regular entering class had the following profile: *mean cumulative GPA*, 3.3; *mean MCAT scores*, *B*-10.0, *C*-9.7, *P*-9.6, *SP*-9.7, *SA:R*-9.1, *SA:Q*-9.0.

Except as permitted in unusual situations by the Admissions Committee, applications will not be accepted from students who are currently enrolled in a graduate degree program in the University of Hawaii unless they will satisfactorily complete their degree program prior to the academic year for which they seek admission or will enroll in a joint M.D.-Ph.D. program already approved by the Ph.D. field of study.

Financial Aid. Financial status is not a factor in considering applicants for acceptance, and, although financial aid is limited, efforts are made to assist students in obtaining loans and scholarships wherever possible. Because of the federal source of loan funds, they are only available to U.S. citizens. Although, in general, students are discouraged from seeking outside employment, a few positions assisting in basic science laboratories are available to second-year students. Approximately 60 percent of the student body currently receive financial assistance.

Information for Minorities. The student body and faculty are cosmopolitan and include blacks, Caucasians, Chinese, Filipinos, Hawaiians, Japanese, Koreans, Micronesians, Samoans, and others.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee: None
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: March 15, 1991
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 56 (6 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $4,830
  Nonresident: $14,490
Student fees: $87

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	109	394	503
Applicants Interviewed	82	42	124
New Entrants*	47	5	52

*100% took the MCAT and had baccalaureate degrees.

University of Chicago Pritzker School of Medicine

Dr. Samuel Hellman, Dean and
Vice President of the Medical Center
Dr. Norma Wagoner, Dean of Students
Dr. Janis Mendelsohn, Associate Dean of
Students (Admissions)

Address inquiries to:
Office of the Dean of Students
University of Chicago
Pritzker School of Medicine
Billings Hospital, Room G-115A
5841 South Maryland Avenue, Box 69
Chicago, Illinois 60637
(312) 702-1939

General Information. The Pritzker School of Medicine of the University of Chicago provides through its M.D. and combined M.D./Ph.D. programs a rigorous course of studies designed to prepare its students for distinguished careers in biomedical research, teaching, and the practice of medicine. The art of medicine and an application of the fruits of modern biomedical technology and research are combined in the medical curriculum to allow the graduate to manage human disease and suffering competently and creatively and to continue the lifelong learning process begun during undergraduate medical study.

The University of Chicago Medical Center and its affiliated institutions provide over 700 inpatient beds, an active outpatient service, and fully staffed state-of-the-art facilities as a basis for clinical training.

The medical school and its laboratories and clinical facilities are located on the campus of the University of Chicago in the Hyde Park neighborhood on the south side of Chicago. The medical school facilities are intermixed with other facilities of the Division of the Biological Sciences and other units of the university. The school is distinctive in that the clinical faculty is predominantly full-time at the university and historically dedicated to excellence in patient care, teaching, research, and scholarly activity. The ready availability of the clinical faculty affords the student an unusual opportunity to gain experience under close supervision by skilled and experienced physicians during the third and fourth years of medical school.

Curriculum. The medical curriculum involves six quarters (two academic years) of basic science instruction with introductory courses in clinical sciences. The third year (four quarters) is an intensive course of clinical studies in the major disciplines of clinical medicine (internal medicine, pediatrics, surgery, and psychiatry) and offers opportunities to elect short clerkships in anesthesiology and critical care, dermatology, ophthalmology, radiology, neurology, or otorhinolaryngology. The fourth year (four quarters) is entirely elective and is the culmination of undergraduate medical studies in which the student may pursue clinical specialty clerkships at the university or elsewhere, conduct research, or undertake independent courses of study in other divisions of the university under the guidance and counsel of members of the faculty. If students elect to pursue special programs of study, which may or may not include studies leading to the master's or doctoral degrees, in life science or other disciplines, this is ordinarily accomplished after the second year and prior to entry into the clinics. A number of organized programs, such as the Medical Scientist Training Program (MSTP) and the Pew Program in Medicine, Arts, and the Social Sciences, allow financial support for a variety of special combined-degree programs for medical students. Students are encouraged to participate in research and other extracurricular activities during their years at the university, and every effort is made to accommodate unusual and creative individual programs.

Students normally are graduated 45 months after matriculation. In the state of Illinois, as in most other states, an additional year of hospital residency-internship is required for licensure to practice medicine.

Requirements for Entrance. The MCAT and a minimum of three years of college are required, although a baccalaureate degree or four years are preferable. Prospective medical students must have a good foundation in general education, and, in addition, they must also fulfill a minimum number of specific science prerequisites that provide the scientific concepts and information upon which the medical studies are based. The specific science requirements for admission are:

	Sem. hrs.
Biology	12
Including at least 8 sem. hrs. with lab.	
Chemistry	16
Including general and aliphatic and aromatic organic chemistry.	
Physics (with lab)	8

Other required college preparations must include studies in English composition, mathematics, social sciences, and humanities.

Advanced standing which has been officially granted to applicants by their colleges in any of the above required subjects will be recognized by the Committee on Admissions as partially fulfilling these requirements for admission.

Selection Factors. Applicants are selected by the Committee on Admissions solely on the basis of their ability, achievement, personality, character, and motivation. The medical school is interested in those applicants with a broad educational background. It strives to provide a high caliber of medical education so that its graduates are well prepared to assume the varied responsibilities of a physician.

The medical school has no residence restrictions, but about 40 percent of the entering class come from the state of Illinois.

Students in the 1989 entering class had the following academic profile: *average GPAs: science*, 3.62; *nonscience*, 3.60.

Whenever it seems desirable, arrangements are made for applicants to have personal interviews. Such interviews are arranged by the Committee on Admissions and are not a responsibility of the applicant.

Financial Aid. Tuition awards are available to members of all four medical classes; however, a larger proportion of upperclassmen receive awards than entering freshmen. Entering medical students interested in applying for tuition aid may do so only after receiving notification of acceptance. Interest-free and low-interest loans are also available for needy students. Every student applying for any financial aid is required to provide a GAPSFAS needs analysis. (See Chapter 6 for details.)

Part-time employment during the school year is not recommended to medical students.

Accepted applicants wishing further information may write to Fiorita Malfeo, director of financial aid, Office of the Dean of Students.

Information for Minorities. Applications are welcome from minority group students. The program of medical studies for minority group students is identical to that for all other medical students. Financial aid, in the form of scholarships and interest-free loans, is available to minority group students and is awarded on the basis of need.

Minority group students wishing further information may write to Dr. James Bowman, assistant dean of students for minority affairs, Office of the Dean of Students.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $45
Oldest MCAT scores considered: 1989
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 4 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 104 (26 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $15,874

Student fees: $690

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	479	2,204	2,683
Applicants Interviewed	137	590	727
New Entrants*	42	59	101

*100% took the MCAT and had baccalaureate degrees.

University of Health Sciences
Chicago Medical School

Dr. Marshall A. Falk, Dean and
Executive Vice President
LaDonna E. Norstrom, Director of Admissions and Records
LaVerne Urich, Director of Financial Aid

Address inquiries to:
Office of Admissions
UHS/Chicago Medical School
3333 Green Bay Road
North Chicago, Illinois 60064
(708) 578-3206/3207

General Information. The Chicago Medical School, founded in 1912, is part of the University of Health Sciences, which is located in North Chicago, Illinois. It is a private, nonsectarian, coeducational institution chartered by the state of Illinois and administered by the Board of Trustees. The Chicago Medical School is the core component of three allied units. The other units are the School of Graduate and Postdoctoral Studies, which grants degrees at the master's and doctorate levels in the major basic science areas as well as the doctorate in clinical psychology, and the School of Related Health Sciences, which currently offers programs in physical therapy and medical technology leading to baccalaureate and master's degrees. In addition, the university offers a BSN completion program in cooperation with Barat College, Lake Forest, Illinois and a B.S.-M.D. accelerated honors program in engineering/medicine in conjunction with Illinois Institute of Technology. Clinical training at various levels is provided at Cook County Hospital, Mt. Sinai Hospital, North Chicago Veterans Administration Hospital, and Great Lakes Naval Medical Center.

Curriculum. In order to meet the changing need of the future physician, the content of the curriculum is under continual evaluation and revision. The curriculum offers students a strong foundation in both the science and practice of medicine by providing an interface between basic science and clinical science.

Currently, the four-year curriculum consists of 13 terms. Of the 6 terms of basic science, the first 3 are devoted primarily to the study of the structure and function of the human body. Concurrently, students study principles of basic life support in emergencies and become qualified in cardiopulmonary resuscitation (CPR). Medical ethics, epidemiology, and biostatistics are offered in didactic sessions, while psycho-social factors in medicine is a self-study course. The following 3 terms are devoted to the study of disease etiology, processes, therapy, and prevention. Concomitantly, there is extensive training in physical diagnosis, medical interviewing, and history-writing. Of the last 7 terms, 48 weeks are devoted to junior clinical rotations and 36 weeks are spent in senior clinical selectives, electives, and/or basic science courses. The required junior clinical clerkships include medicine, surgery, obstetrics/gynecology, psychiatry, and pediatrics. The senior requirements include a medical subinternship and neurology clerkship, plus 28 weeks of approved electives (14 of which must be done on campus). The elective period gives students an opportunity, through both intramural and extramural experiences, to explore and strengthen their personal career interests.

Along with passing all courses and clerkships, students are required to pass Part I and Part II of the NBME examinations as a requisite for graduation.

All students are required to complete the first two years within three academic years; clinical clerkships and electives are to be completed within two and one-half years. Thus, students must complete their education at the Chicago Medical School in no more than five and one-half years, unless enrolled in a combined-degree program or on a leave of absence.

Combined M.D./Ph.D. degree programs are available for students interested in biomedical or clinical research. These programs provide an opportunity for a limited number of students to pursue a program of individualized course work and research leading to the M.D. and Ph.D. degrees. Candidates who complete their Ph.D. degrees will receive full tuition scholarships for all four years of medical school. Applications and additional information are available from the director, combined M.D./Ph.D. degree program.

Requirements for Entrance. The MCAT and three years of college (minimum of 135 quarter hours) are required; the baccalaureate degree is preferred. The college work must include the following:

	Years
Biology or zoology (with lab)	1
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
General physics (with lab)	1

Science courses beyond those required will be helpful in preparing for study in medical school; however, the applicant is expected to have a broad foundation in general education, and any major field of interest is acceptable.

Selection Factors. Students are elected on the basis of various criteria, including: scholarship, character, motivation, and educational background without regard to race, creed, sex, handicap, age, or national origin. One's potential for the study and practice of medicine will be evaluated on the basis of academic achievement, MCAT results, personal appraisals by a preprofessional advisory committee or individual instructors, and a personal interview, if requested by the Student Admissions Committee.

Successful applicants for the 1989 entering class had the following credentials: *mean GPA*, 3.2; *residence*, 15 percent from Illinois, with the remainder from 25 other states; *undergraduate major*, 43 percent in biology or chemistry, with the remainder from a variety of fields. Approximately 20 percent of those seriously considered matriculated.

Applicants working on advanced degrees will be considered on the same basis as all other applicants. Applicants who have not been accepted previously and who make reapplication will be treated on the same basis as first-time applicants.

Financial Aid. Limited university-administered financial aid is available to students who are unable to meet school costs through family resources and major financial aid programs. Awards are made to eligible students based on the availability of funds and demonstrated financial need (expenses minus resources). The university utilizes GAPSFAS to uniformly measure student resources. (See Chapter 6 for details.) Approximately 75 percent of the medical students receive financial assistance. An average award through university-administered funds is $2,000 for full need medical students.

Information for Minorities. The school encourages applications from qualified members of groups currently underrepresented in U.S. medical schools. Application fees may be waived for financially disadvantaged students.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $55
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Nov. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 150 (5 EDP)
Starting date: July 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $24,300

Student fees: $2,650

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	587	3,605	4,192
Applicants Interviewed	105	610	715
New Entrants*	23	129	152

*100% took the MCAT and had baccalaureate degrees.

University of Illinois College of Medicine

Dr. Gerald S. Moss, Dean
Donna A. Kanofsky, Assistant Director of Admissions
Patricia Collins, Assistant Director of Finanial Aid

Address inquiries to:
Office of Medical College Admissions
Room 165 CME M/C 783
University of Illinois
College of Medicine
808 S. Wood Street
Chicago, Illinois 60612
(312) 996-5635

General Information. Founded in 1881 as the College of Physicians and Surgeons of Chicago, the name was changed to the University of Illinois College of Medicine in 1900. Following a reorganization of college structure approved by the Board of Trustees in 1982, the College of Medicine programs are now conducted at four geographic sites. The College of Medicine at Chicago is located at the Health Sciences Center of the university. The College of Medicine at Urbana-Champaign offers a four-year medical curriculum integrated with the programs of a comprehensive campus. The College of Medicine at Peoria includes facilities in each of the hospitals in that community and a modern downtown campus. The College of Medicine at Rockford has a centrally located campus and conducts programs in each of the Rockford hospitals and in several nearby smaller communities.

Curriculum. There are two separate curricular tracks within the College of Medicine. Students assigned to the Chicago campus will pursue their full four-year program of undergraduate medical education under the supervision of the faculty at that site. Students assigned for their first year of instruction to the Urbana-Champaign campus either will remain assigned to that site for the last three years or will transfer to Peoria or Rockford for the three remaining years of the program. Once students begin in either Chicago or Urbana-Champaign, transfers between curricular tracks will be limited.

Each clinical curriculum presents techniques and information necessary for examination and care for the patient, and each provides supervised experiences in a wide variety of clinical settings under direction of the faculty. Through college level faculty committees consisting of representation from all sites, the standards of quality are regularly evaluated for admissions, instruction, student appraisal, and student promotion.

The college also offers a number of special programs. The Medical Scholars Program (MSP) on the Urbana-Champaign campus links the medical school with 30 other academic units, including the natural and biological sciences, social sciences, humanities, business administration, and law, so that students can earn a combined graduate and medical degree. A combined-degree program on the Chicago campus enables medical students to carry out graduate work in the basic medical sciences, bioengineering, and public health. The Chicago, Rockford, and Peoria campuses offer independent study programs through which medical students can design their own curricula and carry out in-depth studies of health care topics in which they have a special interest.

Requirements for Entrance. All candidates must take the MCAT no later than the fall test period of the academic year in which application is made. The Committee on Admissions uses in its evaluation the highest MCAT scores reported.

Applicants must be citizens of the United States or permanent legal residents.

Applicants must receive the baccalaureate degree prior to matriculation in the College of Medicine. Students may elect any major field of interest. Biology, chemistry (through organic), physics or biophysics, and behavioral science will be particularly helpful in preparing for study in the college. However, the undergraduate major may be chosen from the humanities, fine arts, or behavioral, biological, or physical sciences. Mathematics through calculus is useful for those anticipating advanced work in basic or clinical research.

Letters of recommendation are required of all applicants.

Selection Factors. All applicants apply to the Committee on Admissions, and accepted applicants are given their choices of study sites insofar as places permit. Prospective and accepted students are provided with detailed information to help in their selection of sites.

The College of Medicine endeavors to select applicants who in the judgment of the Committee on Admissions demonstrate best the academic achievement, emotional stability, maturity, integrity, and motivation adjudged necessary for successful study and practice of medicine. The committee is interested in evidence of the applicant's capacity for mature and independent scholarship, while discouraging rigid patterns of course work. The committee will consider the quality of work of each applicant in all subject areas, the breadth of education, achievement in advanced projects, and work and extracurricular experiences that demonstrate the applicant's imagination, initiative, and creativity. The College of Medicine does not discriminate against applicants on the basis of race, creed, sex, religion, national origin, age, handicap, or status as a disabled veteran or veteran of the Vietnam era.

Selection of students is based upon a critical evaluation of all available data on each applicant and upon the changing needs of society. The Committee on Admissions gives preference to candidates who: (1) are Illinois residents, (2) possess a GPA of B or better, (3) have attained an MCAT score above the national mean, and (4) meet the safety and technical standards set by the college. Candidates whose formal education has been interrupted are reviewed with respect to their potential contribution to the practice of medicine and to their competitive status with other applicants. An interview of selected candidates may be required.

Financial Aid. Entering students are encouraged to provide timely application through the College of Medicine Office of Student Financial Aid for loan funds and grant-in-aid scholarship assistance based on need. Grants and scholarships to meet proven financial need are awarded each year to students from all classes.

Information for Minority and Rural Candidates. The College of Medicine has developed programs to encourage applications from qualified individuals from medically underserved areas of Illinois. The college maintains a professional staff to provide guidance and counseling to motivated students from minority ethnic groups that are underrepresented within the physician population of Illinois (black American, Hispanic, American Indian) and resident candidates whose backgrounds indicate potential for rural Illinois practice. The Committee on Admissions reviews all applications, and students are accepted on the basis of their potential for successfully meeting all college standards leading to the M.D. degree.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants: $20
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: June 15, 1991; $50 refundable thereafter
Estimated number of new entrants: 300 (20 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $7,136
  Nonresident: $20,696
Student fees: $1,060

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,170	1,966	3,136
Applicants Interviewed	718	219	937
New Entrants*	273	27	300

*100% took the MCAT and had baccalaureate degrees.

Loyola University of Chicago
Stritch School of Medicine

Dr. Ralph P. Leischner, Acting Dean
Dr. Daniel A. Burr, Associate Dean for Admissions
Donna J. Sobie, Director, Financial Aid

Address inquiries to:
Office of Admissions, Room 1752
Loyola University Medical Center
Stritch School of Medicine
2160 South First Avenue
Maywood, Illinois 60153
(708) 216-3229

General Information. Loyola University of Chicago is a private university founded in 1870 by the Jesuits. It is one of the largest Catholic universities in the United States. By 1920 the university had organized several small medical colleges into a new medical school. In 1948 the school was named in honor of Samuel Cardinal Stritch, Archbishop of Chicago. In 1969 the university opened the Loyola University Medical Center, built on land given by the Veterans Administration, in Maywood, a suburban community located 12 miles west of the Chicago Loop. One building at the Medical Center houses both the Stritch School of Medicine and the Foster G. McGaw Hospital. Students receive their clinical training at the 570-bed McGaw Hospital, at the 1,300-bed Hines Veterans Administration Hospital, and at a number of affiliated hospitals in the Chicago area.

Curriculum. The primary purpose of the Stritch School of Medicine is to train physicians who will care for their patients with skill, respect, and compassion. The personal and intellectual development of each student is promoted through close contact with members of the faculty and administration. Students are exposed to the operation of a large medical center, where they learn in an atmosphere of cooperation and mutual assistance. The first three semesters are devoted to the basic sciences. The fourth semester consists of an organ systems course, community medicine, and physical diagnosis, all intended to prepare students for the integration of their scientific knowledge with the clinical study of medicine. The third and fourth years are organized into clinical clerkships. The core curriculum includes medicine (20 weeks), surgery (12 weeks), pediatrics (6 weeks), psychiatry (6 weeks), neurology (4 weeks), and obstetrics and gynecology (6 weeks). Students also take between 32 and 40 weeks of electives during these two years. Through these electives, they anticipate their residency training and prepare for careers in medicine suited to their particular interests and talents.

Special features of the curriculum include the Medical Humanities Program, which extends from the basic science semesters through clinical training, and the Dual Degree Program, whereby medical students can earn M.S. and Ph.D. degrees in the Graduate School in order to prepare for careers as medical scientists and teachers. An honors, high pass, pass, fail grading system is used.

Requirements for Entrance. A bachelor's degree and the MCAT, preferably taken by the spring but no later than the fall of the year of application, are required. The following courses are required:

	Years
Biology or zoology (with lab)	1
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
Physics (with lab)	1

A semester or quarter of biochemistry can be substituted for part of the organic chemistry requirement.

Any undergraduate major is acceptable. Applicants are expected to take challenging course work in the humanities and social sciences, and they should be able to speak and write the English language correctly.

Applicants must be U.S. citizens or hold a permanent resident visa. As a rule, applicants are limited to applying no more than twice. Applicants enrolled in advanced degree programs must expect to complete their degrees prior to matriculation.

Selection Factors. The academic record will be evaluated for both depth and breadth of study. Circumstances, such as need to work, which affect a student's academic performance will be taken into account when the record is evaluated. The 1989 entering class had a mean GPA of 3.37 and a mean MCAT of 9.1. Applicants who present academic credentials which indicate they are capable of succeeding in the rigors of a medical education will be evaluated for evidence of the personal qualifications they can bring to the medical profession. Essential characteristics include an interest in learning, integrity, compassion, and the ability to assume responsibility. Of particular concern will be an applicant's exploration of the field of medicine and the nature of the motivation to enter this career. Approximately 38 percent of all applicants who complete their files are invited to interviews with members of the Committee on Admissions. These interviews are conducted only at the Medical Center campus.

At least 50 percent of each entering class will be residents of Illinois. Approximately one-third of each entering class are women, and the age range of accepted applicants is quite wide. Early submission of the AMCAS application and prompt return of all supporting material will enhance an applicant's chance of being offered a place in the class.

Loyola-Stritch recommends the Early Decision Program (EDP) for applicants with strong academic credentials and a particular interest in the school. Those considering applying through the EDP should contact the assistant dean for admissions prior to submitting their AMCAS application.

Loyola University does not discriminate on the basis of race, religion, national origin, sex, age, or handicap. The Committee on Admissions attempts to select students with diversified backgrounds for the contributions they can make to the educational process and the medical profession. Members of minority groups underrepresented in medicine are encouraged to apply.

Financial Aid. All students who are not residents of Illinois when they matriculate will be charged a tuition differential, which will be added to the tuition established for each year of enrollment. Residency is determined by the guidelines of the Illinois Board of Higher Education for nonpublic medical schools. Student aid is primarily in the form of loans, but limited scholarship and grant money is also available. Some students have found it possible to work during their first two years, often in jobs at the Medical Center. The school's Financial Aid Office attempts to keep student debt at a manageable level through workshops on budgeting and financial planning. Students are provided with information on their loan obligations in the context of anticipated earnings. Applicants should contact the director of financial aid approximately one month after submitting financial aid forms.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee after screening: $35
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Lastest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 130 (8 EDP)
Starting date: July 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $13,800
  Nonresident: $17,650

Student fees: $124

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	880	2,767	3,647
Applicants Interviewed	291	284	575
New Entrants*	65	65	130

*100% took the MCAT and had baccalaureate degrees.

Northwestern University Medical School

Dr. Harry N. Beaty, Dean
Dr. Charles A. Berry, Associate Dean for Admissions
Tamra Ortgies, Assistant Dean for Financial Aid

Address inquiries to:
Associate Dean for Admissions
Northwestern University Medical School
303 East Chicago Avenue
Chicago, Illinois 60611
(312) 908-8206

General Information. Founded in 1859, the Medical School is located on the university's lakefront Chicago campus, along with three of the McGaw Medical Center hospitals. Medical students may live on-campus at Abbott Hall or Lake Shore Center. More than 2,200 full-time, part-time, and contributed services faculty members offer instruction in the basic sciences and clinical medicine. The school also offers opportunities in basic science research and clinical research. The McGaw hospitals—a group of urban, suburban, specialized, and general hospitals—are Northwestern Memorial, Children's Memorial, Evanston, and Glenbrook hospitals; Rehabilitation Institute of Chicago; and VA Lakeside Medical Center.

Curriculum. Northwestern's goal is to graduate men and women who are so well grounded in both basic and clinical sciences that they can capably diagnose and treat patients in a variety of settings.

The first two years involve traditional classroom learning in lecture halls and laboratories, with some exposure to clinical medicine. In the third year, students learn from attending physicians and residents during clinical clerkships in medicine, surgery, neurology, psychiatry, pediatrics, obstetrics and gynecology, rehabilitation medicine, and anesthesia. To help students round out their medical education and focus on career goals, the fourth year combines electives with required clerkships in medicine, ambulatory care, and two surgical subspecialties.

A combined M.D.-Ph.D. program, offered by the Medical School in cooperation with the Graduate School, prepares students for careers in academic medicine.

A combined M.D.-M.M. program with the Kellogg Graduate School of Management enables a student to obtain both degrees in five calendar years.

The Department of Community Health and Preventive Medicine offers the Master of Public Health Program. Students may obtain the M.P.H. degree within the four-year period required for the M.D. program.

Honors Program. One of the oldest combined baccalaureate-M.D. programs in the country, the Honors Program in Medical Education (HPME) each year selects 60 highly motivated, talented high school graduates for a course of study leading to B.S. and M.D. degrees in seven years. A program option leading to the B.S. degree in engineering and the M.D. also is offered. Inquiries about the HPME should be directed to: Office of Admission, Northwestern University, Evanston, Illinois 60201.

Requirements for Entrance. The MCAT and 135 quarter hours (90 semester hours) of undergraduate course work from an accredited college are required. U.S. citizens as well as foreign nationals should plan on taking their course work at an undergraduate institution in the United States or Canada. The Medical School does not place emphasis on any major field of study. It does recommend that year-long courses in biology, general chemistry, organic chemistry, physics, and English be completed before matriculating into medical school.

Candidates are strongly urged to take the MCAT prior to submitting an application for admission. Preference will be given to applicants who will have received a bachelor's degree prior to enrollment at Northwestern University Medical School.

Selection Factors. The Medical School is committed to filling about half its positions with Illinois residents. After Illinois residents and those enrolled in the HPME are accommodated, about 50 to 60 positions remain for conventional out-of-state applicants.

All completed applications are reviewed and evaluated. Reviewers look for evidence of emotional maturity, motivation, past achievement, and character as well as academic excellence. A premium is placed upon breadth of the academic program and the life experiences of the individual. Applicants should be liberally educated men and women who have studied in some depth subjects beyond the conventional premedical sciences. For example, the Admissions Committee appreciates candidates who major in such subjects as history, English, or sociology and yet desire to be physicians. Interviews are required of all students considered seriously for acceptance; interview invitations are issued solely upon the request of the Admissions Committee and are conducted at the Medical School.

Some characteristics of the 1989 entering class were: *GPA*, 3.51; *MCAT*, scores, averaging about the 75th percentile nationally; *average age*, 22 (range 20–44); *sex*, 64 women.

The Medical School faculty has established technical performance standards. Candidates for admission should demonstrate the capabilities and skills required to function effectively in a broad variety of laboratory and clinical situations. Northwestern University does not discriminate on the basis of race, religion, national origin, sex, age, or handicap in its educational programs or activities in accordance with civil rights legislation.

Financial Aid. More than 60 percent of the student body have received financial aid. Support is provided primarily through national and local loan programs. The ability of prospective students to pay for their education has no bearing on their acceptance to the Medical School.

Information for Disadvantaged Applicants. Applicants from disadvantaged cultural or socioeconomic backgrounds will receive consideration in terms of demonstrated current abilities.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee after screening: $50
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 170 (5 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees: $18,834

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	737	3,755	4,492*
Applicants Interviewed	155	340	495
New Entrants†	58	110	168

*Includes 14 applicants to the Honors Program in Medical Education (HPME).

†100% took the MCAT; 100% had baccalaureate degrees (excluding the HPME entrants).

Rush Medical College of Rush University

Dr. Henry P. Russe, Dean and Vice President
for Medical Affairs
Dr. Larry J. Goodman, Associate Dean,
Medical Student Programs
Robert Dame, Director, Student Financial Aid

Address inquiries to:
Office of Admissions
524 Academic Facility
Rush Medical College of Rush University
600 South Paulina Street
Chicago, Illinois 60612
(312) 942-6913

General Information. Rush Medical College, founded in 1837, is the oldest component of Rush University. The original medical college graduated over 10,000 physicians before closing in 1942. Rush Medical College reopened in 1971 and is part of Rush University.

Through the academic and health care network of more than a dozen affiliated hospitals and a neighborhood health center, Rush-Presbyterian-St. Luke's Medical Center serves 1.5 to 2 million people. Thus, the students of Rush University train in urban, suburban, and rural areas in a variety of socioeconomic and ethnic settings.

Curriculum. Rush Medical College provides a firm background in the science of medicine and a balanced introduction to the practice of clinical medicine in a four-year curriculum designed to provide educational flexibility. A major goal of the college and its faculty is to create an environment that fosters commitments to competent and compassionate patient care and to attitudes of inquiry and lifelong learning.

In the regular curriculum, the first year introduces students to the basic medical sciences. The second year expands the basic science background with the study of pathological processes and therapeutics. In addition, clinical skills are introduced and developed in preparation for the clinical years.

A small-group oriented problem-assisted alternative curriculum has been implemented for a limited number of students. This alternative curriculum shifts the allocation of basic science faculty effort to the preparation of effective guidebooks and to serving as expert resources for students. The guidebooks outline the basic science material, which is to be learned in an integrative fashion, and illustrate relevant problem-solving approaches, learning examinations, and appropriate reference material. Material is integrated from several disciplines for study together as a unit. Scheduled student-faculty contact hours are devoted to examining clinical problems which serve as vehicles for learning in the basic sciences and for developing clinical reasoning and interpersonal skills.

The third and fourth years consist of required core clerkships in internal medicine, surgery, obstetrics and gynecology, pediatrics, psychiatry, family practice, and neurology; a required subinternship in internal medicine, pediatrics, or family practice; and a minimum of 20 weeks of elective clerkships at no additional charge. Many students spend some of their elective clerkship experience in foreign countries.

Rush University offers qualified students who aspire to careers in academic medicine and research the opportunity to enroll in a combined M.D.-Ph.D. program. Ph.D. programs are offered in the Graduate College in the following areas: anatomical sciences, biochemistry, immunology, microbiology, pharmacology, physiology, and psychology. Students in concurrent programs must meet the full conditions and requirements of the Graduate College, Graduate Division, and the Medical College.

Upon entering Rush Medical College, each student is assigned an academic adviser to help define goals, aid in the selection of courses of study, provide other counseling, and serve as role model and friend. This adviser will continue with the student as the student progresses through school.

Requirements for Entrance. The MCAT and 90 semester hours of undergraduate work in an accredited college are required. College work must include the following science areas:

	Sem. hrs.
Biology or zoology	8
Inorganic chemistry	8
Organic chemistry	8
General physics	8

Four semester hours of biochemistry may be substituted for the second semester of organic chemistry.

Sound preparation in the basic sciences is essential, but a broad background in the humanities and wide exposure to people and their problems are equally necessary.

Applicants are strongly urged to take the MCAT in the spring of the year of application; however, those who take it in the fall will also be considered.

Selection Factors. Students who enter the Rush Medical College program are carefully selected for their intellectual and social maturity and represent a wide variety of educational and social backgrounds. Problem-solving skills, critical judgment, and the capability to pursue independent study are considered important. Majors in science and majors in other areas with demonstrated excellence in the required science courses are considered equally appropriate to a medical education at Rush Medical College. The Committee on Admissions looks for objective evidence that the applicant will be able to handle the academic demands of the medical curriculum. In evaluating academic achievement, the committee does consider factors such as the degree of difficulty of the program, the need to work, social and cultural backgrounds, and other factors that may affect the record. In the nonacademic realm, maturity, a balanced education, personal integrity, and motivational factors are considered essential determinants.

Undergraduate academic achievement, recommendations of premedical committees and/or undergraduate faculty, performance on the MCAT, and personal interviews (which are requested of those applicants who are considered competitive candidates by the Committee on Admissions) are considered in the evaluation of applicants. Only applications from U.S. citizens or permanent residents are considered. Rush Medical College is expanding the number of positions to be made available to non-Illinois residents. The average GPA and MCAT scores approximate those of nationally accepted applicants. All applicants are considered without regard to sex, religion, race, age, handicap, or national origin. Applicants from disadvantaged minority groups underrepresented in the medical profession are encouraged to apply.

Financial Aid. Determination of a financial aid award is made after acceptance into medical school. The financial aid package will consist primarily of loans. Due to limited institutional scholarship assistance, scholarship eligibility is based on parents' resources regardless of the student's age or status. Students are awarded financial aid packages to meet 100 percent of the demonstrated financial need during each year of their medical education. Approximately 80 percent of the medical students receive financial assistance from state, federal, institutional, or other sources outside the family.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $35
Oldest MCAT scores considered: 1989
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notifed by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 120 (10 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees: $16,624

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	888	1,205	2,093
Applicants Interviewed	450	125	575
New Entrants*	98	23	121

*100% took the MCAT; 99% had baccalaureate degrees.

Southern Illinois University School of Medicine

Dr. Richard H. Moy, Dean and Provost
Erin L. Coil, Admissions Officer
John F. Record, Assistant Dean of Students/Financial Aid

Address inquiries to:
Office of Student and Alumni Affairs
Southern Illinois University
School of Medicine
P.O. Box 19230
Springfield, Illinois 62794-9230
(217) 782-2860

General Information. Southern Illinois University School of Medicine was established in 1969 and graduated its first class in 1975. Students spend the first 12 months of the program at the medical education facilities on the Carbondale campus and the remaining three years at the Medical Center in Springfield.

Curriculum. A primary emphasis is on problem-based learning in recognition of the fact that the most effective and efficient physicians are good problem solvers. Beginning with the first weeks of school, medical students are involved in clarifying and solving actual medical problems. Basic science information is learned, organized, and stored in a manner which enhances its availability for use in solving subsequent problems.

The first-year program is designed to ensure mastery of those sciences basic to medicine, including anatomy, physiology, biochemistry, and behavioral science. The curriculum content is organized in an integrated study of organ systems. Significant input from relevant clinical disciplines results in a learning experience that demonstrates to the student the interrelationship of studies in the basic sciences and clinical medicine. In addition to the traditional basic sciences, the student also studies probability and gentics, introductory pharmacology, community health, and clinical reasoning.

The second-year program, in Springfield, begins with a 6-week introduction to microbiology and immunology followed by a 10-week multidisciplinary, case-oriented block which focuses on infectious and immunologic disease. The remainder of the second year uses an organ system structure for the delivery of pathology, pharmacology, radiology, and clinical medicine. While the emphasis in clinical medicine the first year is the mastery of data-gathering skills in history and physical examination, the emphasis in the second year is on developing the ability to focus these skills on the patient's presenting problem and to integrate knowledge of underlying pathophysiological mechanisms with the data-gathering process.

Third-year students begin clinical clerkships in the six specialties and medical humanities. Thirty-two weeks of elective study complete the program. The grading system is honors/pass/fail.

The school also offers a problem-based learning track (alternative curriculum) and a 6-year M.D./J.D. program.

Requirements for Entrance. The MCAT and a minimum of 90 semester hours of undergraduate work in an accredited degree-granting college or university are required. Applicants are expected to have a good foundation in the natural sciences, social sciences, and humanities and to demonstrate facility in writing and speaking the English language.

To perform well on the MCAT, it is advisable to have had a minimum of two years of college chemistry (including organic), one year of physics, one year of biological or life sciences, mathematics (including statistics), and one year of English composition.

Selection Factors. Applicants are accepted from all U.S. citizens and those foreign citizens possessing a permanent resident visa. To be competitive, applicants should present credentials equivalent to better than a B average and MCAT science problems and reading scores in the 60th percentile. Preference will be given to applicants who will have achieved a baccalaureate degree by the time of matriculation in medical school, who are established residents of central or southern Illinois, and who have sufficient recent academic activity to demonstrate the potential for successful completion of the rigorous educational program. Although the Admissions Committee establishes no quotas, an effort is made to recruit qualified applicants from groups that have been underrepresented in the medical profession. Applicants are selected for interview according to their ability to meet the selection factors and to identify with the purpose of the School of Medicine, which is to assist the citizens of central and southern Illinois in meeting their present and future health care needs. Selected applicants are interviewed in either Springfield or Carbondale; an interview is a prerequisite to acceptance.

The School of Medicine does not discriminate on the basis of race, religion, age, sex, handicap, or national or ethnic origin in administration of its education policies, admissions policies, scholarship and loan programs, and other school administered programs.

Financial Aid. Financial assistance is made available to all students demonstrating financial need, and 85 percent of the student body receive financial aid. Only a limited number of scholarships are available. Most financial need will be met by a combination of loan funds.

Limited employment opportunities are available. Medical students are allowed to work as long as their employment commitments do not interfere with their academic progress.

Information for Minorities. The School of Medicine sponsors the Medical Education Preparatory Program (MEDPREP) for minority and economically disadvantaged undergraduate or postbaccalaureate students. MEDPREP is a non-degree-granting program located on the Carbondale campus. Students who are admitted to the program must begin their matriculation during the term immediately preceding or following the summer semester. The MEDPREP curriculum is designed to meet students' individual preparatory needs. It consists of developmental and enrichment tutorials in small class format, preparation for the MCAT, and medical school application assistance. Additionally, students enroll in preprofessional courses offered by other departments on the campus. Personal, academic, and career counseling is also provided. Undergraduate students may participate in the program nine semesters; postbaccalaureate students may participate in the program six semesters. MEDPREP does not offer a guarantee of eventual acceptance to the School of Medicine or to any other medical school. However, careful consideration will be given to MEDPREP participant applicants by the School of Medicine and those selected medical schools working cooperatively with MEDPREP. Inquiries should be addressed to: Director, MEDPREP, Southern Illinois University School of Medicine, Carbondale, Illinois 62901.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee: None
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  Nonresidents must apply through EDP or through the M.D./J.D. program
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: Aug. 1, 1991
Estimated number of new entrants: 72 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees:
  Resident: $7,892
  Nonresident: $22,164

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	678	188	866
Applicants Interviewed	266	3	269
New Entrants*	71	1	72

*100% took the MCAT and had baccalaureate degrees.

Indiana University School of Medicine

Dr. Walter J. Daly, Dean
Dr. George T. Lukemeyer, Executive Associate Dean
Robert M. Stump, Jr., Director of Admissions

Address inquiries to:
Medical School Admissions Office
Fesler Hall 213
Indiana University
School of Medicine
1120 South Drive
Indianapolis, Indiana 46202-5113
(317) 274-3772

General Information. Indiana University School of Medicine, founded in 1903, is the sole institution responsible for providing medical education within the state of Indiana and operates the Indiana Statewide Medical Education System. The school has centers for medical education at Evansville, Fort Wayne, Gary, Lafayette, Muncie, South Bend, and Terre Haute, where students may spend their first two years of medical school. The Medical Center in Indianapolis has students enrolled in all four years of the medical curriculum. There is also a limited-enrollment Medical Sciences Program in Bloomington, where the main campus of Indiana University resides.

In addition to its role and responsibilities in teaching, patient care, and service, Indiana University School of Medicine is a major academic research center.

Indiana University Medical Center includes the School of Medicine with its Division of Allied Health Sciences, the School of Dentistry, the School of Nursing, research laboratories, the University Hospitals, and the Student Union Building. A new medical research and library building was dedicated in the spring of 1989.

Curriculum. The basic medical sciences are presented in the first two years. Entering students may have contact with patients beginning in the first academic year. Second-year students have an intensive multidepartmental course entitled Introduction to Medicine.

A 12-month clinical clerkship program at the Medical Center in Indianapolis occupies the third year and includes units in internal medicine, surgery, surgical specialties, obstetrics and gynecology, pediatrics, neurosensory science, and psychiatry. In the fourth year, students complete a minimum of nine one-month electives, which may be selected from an approved list of hundreds of choices throughout the state. With the permission of the faculty, students often arrange for special elective experiences around the country and abroad.

Students are required to complete a research paper sometime during their four-year enrollment in medical school.

Students interested in research or academic medicine may elect to enroll in the combined-degree program and pursue a master's or Ph.D. degree in addition to the M.D. degree.

In Indianapolis, the School of Medicine's basic science departments offer combined-degree programs in anatomy, biochemistry, medical genetics, medical neurobiology, microbiology/immunology, pathology, pharmacology/toxicology, and physiology/biophysics.

The Medical Sciences Program in Bloomington offers studies in anatomy, biochemistry, pathology, pharmacology and physiology. Also available to combined-degree students in Bloomington are studies in the humanities and social and behavioral sciences as well as in the biological and physical sciences.

In cooperation with Purdue University, a combined-degree program is offered in engineering, medicinal chemistry, molecular biology, and neuroscience at the Lafayette Center for Medical Education.

Requirements for Entrance. The School of Medicine recommends that students preparing for the study of medicine take a variety of courses commonly included in a traditional liberal arts and sciences curriculum.

The MCAT and a minimum of three college years (90 semester hours) are required. Physical education and ROTC courses will not be accepted as part of the 90 semester hours. The undergraduate course work must include:

	Years
Biology (with labs)	1
General chemistry (with labs)	1
Organic chemistry (with labs)	1
Physics (with labs)	1

Applicants should plan to take the MCAT in the spring prior to making application. The applicant will not be considered for admission by the Admissions Committee until the MCAT scores are received.

Although an unusually well qualified applicant is occasionally admitted after only three years of undergraduate study, the Admissions Committee shows preference to applicants who will have a baccalaureate degree prior to matriculation in medical school.

Selection Factors. Students are offered places in the class on the basis of scholarship, character, personality, references, residence, interview, and performance on the MCAT. In addition, the medical school faculty has specified non-academic criteria (technical standards) which all applicants must meet in order to participate effectively in the medical education program and the practice of medicine.

Because the School of Medicine is state-supported, the Admissions Committee shows preference to Indiana residents in selecting the class. Nevertheless, a number of nonresidents are offered acceptances each year (108 for the 1989 entering class), and well qualified nonresidents with an interest in studying at Indiana are encouraged to apply.

Indiana residents who have a GPA of 3.0 on a 4.0 scale and nonresidents with a GPA of 3.5 and superior MCAT scores are eligible for an interview and full consideration by the Admissions Committee. Applications of individuals whose credentials do not meet these criteria are not automatically excluded but are reviewed on an individual basis to determine whether they warrant further consideration.

The School of Medicine does not discriminate on the basis of race, sex, age, handicap, creed, or national origin.

Financial Aid. Scholarship and long-term, low-interest loan funds are available to students with financial need. There are also funds available which provide awards to medical students who have demonstrated academic excellence.

Information for Minorities. Applications from disadvantaged individuals and members of minority groups are encouraged.

The school recruits capable minority college students and provides counseling for high school and college students interested in the health professions. A program is available for all students who require tutorial assistance.

All applications are reviewed by the full Admissions Committee, which accepts students, minority and nonminority, on an individual basis according to their potential and promise for medical school and for service as physicians.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee after screening: $20
Oldest MCAT considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 265 (50 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $5,400
  Nonresident: $12,200

Student fees: Varies

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	404	903	1,307
Applicants Interviewed	362	228	590
New Entrants*	235	30	265

*100% took the MCAT; 96% had baccalaureate degrees.

University of Iowa College of Medicine

Dr. John W. Eckstein, Dean
Dr. Charles M. Helms, Associate Dean for
Student Affairs and Curriculum
Thomas C. Taylor, Coordinator of Admissions and Records

Address inquiries to:
Coordinator of Admissions
240 Eckstein Medical Research Facility
University of Iowa
College of Medicine
Iowa City, Iowa 52242
(319) 335-8052

General Information. The College of Medicine originated in 1850 and has evolved into a major health center serving the entire state and region. The health sciences campus includes the 1,100-bed University Hospitals and Clinics, 440-bed Veterans Administration Hospital, 1,100-seat Health Sciences Library, and medical college, basic sciences, dental, nursing, and pharmacy buildings. The medical school has a full-time teaching faculty. Every faculty member devotes full time in the medical center to teaching medical students, to patient care, and to medical research. This provides experience in intensive bedside learning. The 500 resident physicians are selected for their interest in teaching as well as their outstanding academic records.

Curriculum. The curriculum consists of four phases. The introductory Phase 1 of three semesters covers the sciences basic to medicine. Phase 2 is an intensive semester-long introduction to clinical medicine, which develops a foundation of attitudes, habits, knowledge, and skills. Phase 3 comprises a period of approximately 12 months of clerkships in clinical areas. Phase 4 is a period of intensive studies chosen by the student with the help of faculty advisers. The programs may include course work in the basic sciences or clinical areas and/or research in association with members of the faculty and may be on or off campus.

In order to prepare academicians in medicine, a Medical Scientist Training Program (MSTP) is offered which leads to both the M.D. and Ph.D. degrees over a six- to seven-year period.

Requirements for Entrance. The MCAT and a minimum of 94 semester hours in an approved college are required. Completion of four years of college, including the requirements for the baccalaureate degree, is recommended. The college curriculum must include the following course work with appropriate laboratory experiences:

Biological sciences: A complete introductory course in the principles of animal biology or zoology and botany (but not botany alone) and one advanced course in biology.

Chemistry: A complete introductory course in organic chemistry, which would ordinarily follow a complete introductory course in modern general chemical principles.

Physics: A complete introductory course.

Mathematics: College algebra and trigonometry or advanced college mathematics when college algebra and trigonometry were completed in high school.

The remaining hours are chosen by the student. It is assumed that rhetoric, literature, social and behavioral science, and historical culture are generally among the courses taken as requirements for a baccalaureate degree.

Applicants for admission to the College of Medicine must demonstrate the capability to complete the entire medical curriculum, which requires proficiency in a variety of cognitive, problem-solving, manipulative, communicative, and interpersonal skills.

Selection Factors. To be eligible for admission, the applicant must have attained at least a 2.5 GPA (based on a 4.0 scale) for all college work undertaken. Fulfillment of the basic requirements does not guarantee admission. The Admissions Committee selects those eligible applicants best qualified for the study and practice of medicine. The major factors considered are:

1. Overall undergraduate academic record as reflected in the GPA. The class has averaged 3.5.
2. Science GPA. The average has been 3.5.
3. MCAT scores. Scores have averaged 9–10 on each subtest.
4. Residence. Preference will be given to applicants with high scholastic standing who are residents of Iowa, and consideration will also be given to outstanding nonresidents.
5. Personal characteristics, evaluated primarily by means of specially devised evaluation forms sent to each applicant to be completed by evaluators chosen by the applicant.

Personal interviews are not usually conducted but are occasionally requested by the Admissions Committee. Applicants who feel that an interview is necessary may request that an interview be arranged by contacting the coordinator of admissions. Requests for interviews should normally be made before January 1. The specific purpose of the interview should be clearly stated.

While most students applying have a major in one of the science areas, equal consideration is given to nonscience majors who have performed well in the required premedical courses.

Financial Aid. Applicants are selected without consideration of their ability to meet the expenses of attending medical school. Students receive financial aid solely on the basis of need as calculated using the College Scholarship Service Financial Aid Form. (See Chapter 6 for details.)

While students are responsible for their own financial support, the college provides information and advice on locating sources of funds. Students are urged to seek federal insured bank loans from their hometown banks. Loan and grant funds from private, state, and federal sources are available through the college.

Information for Disadvantaged Applicants. The Educational Opportunities Program (EOP) provides financial and academic assistance to educationally disadvantaged students. The program gives emphasis to groups underrepresented in American medicine. The EOP financial aid package is designed individually on the basis of need. Eligibility for the program is determined by a special committee which includes students. A required prefreshman summer program includes orientation, one of the regular first semester courses, a study skills program, and introductory material to other courses in the curriculum. Departmental tutors are available. Application fees and admission deposit may be defrayed for financially disadvantaged students.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee after screening: $20
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Aug. 1991

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $50, due March 1, 1991, or within 2 weeks of acceptance offer if accepted after March 1, 1991
Deposit refundable prior to: June 15, 1991
Estimated number of new entrants: 175
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $5,752
  Nonresident: $14,760

Student fees: $65

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	254	835	1,089
New Entrants*	150	22	172

*100% took the MCAT; 98% had baccalaureate degrees.

University of Kansas School of Medicine

Dr. Martin L. Pernoll, Executive Dean
Una K. Creditor, Associate Dean for Admissions
Walter R. Gehlbach, Director, Student Services

Address inquiries to:
Associate Dean for Admissions
University of Kansas
School of Medicine
39th and Rainbow Boulevard
Kansas City, Kansas 66103
(913) 588-5245

General Information. The University of Kansas School of Medicine was established in 1899 with a two-year program which expanded to four years in 1906. It is located on the Medical Center campus in Kansas City, Kansas, which also houses the schools of nursing, allied health professions, and graduate studies. There are 1,500 faculty members in the School of Medicine, including 450 full-time faculty members in general and specialty medicine and the basic sciences. Full-time members actively participate in the teaching, service, and research mission of the school. Facilities at the Medical Center include the Archie R. Dykes Library of the Health Sciences, completed in 1983; the Orr-Major basic sciences facility, containing classrooms, laboratories, an auditorium, and a learning resources center, completed in 1976; and the university's Bell Memorial Hospital, completed in 1979. This 485-bed hospital offers complete primary and tertiary care for patients of all ages and care for a wide range of problems from traumatic injuries to specialized care for those with chronic conditions.

The School of Medicine-Wichita was accredited in 1974, and a portion of every class completes clinical training at the four Wichita hospitals.

Curriculum. The curriculum at the University of Kansas School of Medicine is designed to provide the student with the knowledge base, skills, and the environment to develop into a competent and caring physician. The curriculum is divided into two components, the first being the basic sciences which includes the following required courses: Gross Anatomy, Biochemistry, Clinical Science I, Medical Genetics and Developmental Biology, Neurosciences, Cell and Tissue Biology, Physiology, Clinical Science II, Microbiology, Behavioral Sciences, Pathology I and II, Pharmacology, and Introduction to Clinical Medicine. The clinical component consists of required clerkships in medicine, surgery, pediatrics, psychiatry, obstetrics and gynecology, family practice, and geriatrics and a one-month preceptorship where students serve with a practicing physician in Kansas. A large selection of basic science and clinical electives are also available to enhance the achievement of personal education goals. Each student is required to take at least 20 weeks of electives. Approximately 50 students will compete their clinical training on the Wichita campus. Grades are assigned as superior, high satisfactory, satisfactory, low satisfactory or unsatisfactory.

A special Academic Track is available for a limited number of students and includes a one-year postsophomore fellowship. M.D.-M.S. or M.D.-Ph.D. programs are offered through many departments.

Requirements for Entrance. The MCAT is required. Applicants should complete a course of study leading to a baccalaureate degree which will be conferred prior to the planned date of enrollment in medical school. The degree requirement may be modified under exceptional circumstances. Specific minimum course work requirements are:

	Semesters
General biology and/or zoology (with lab)	2
Inorganic chemistry (with lab)	2
Organic chemistry or organic chemistry/ biochemistry sequence (with lab)	2
Physics (with lab)	2
Calculus, statistics, or computer science	1
English	2
Sufficient credit to meet the prerequisites for a liberal arts degree.	

Undergraduate courses should be rigorous and, in general, should be equivalent to courses taken by students majoring in those subject areas. The Admissions Committee does not give preference to a major field of study, and students are strongly advised to balance their work in the natural sciences with courses in the social sciences and humanities. No other specific courses are required.

Selection Factors. A report from the college premedical adviser or committee is required. An interview with four members of the Selection Panel, arranged by the School of Medicine, is usually required. The Selection Panel, composed of medical faculty, physicians, who are in private practice, and Kansas citizens who are not in the medical field, evaluates each applicant's scholarship but recognizes that individual capabilities and professional promise cannot always be completely measured by traditional systems of grading. Panel members also consider MCAT results, the recommendation of an applicant's premedical adviser, the trend in academic performance, and impressions gained at the interview. Decisions are made without regard to race, sex, creed, national origin, age, or handicap. Highly qualified nonresident candidates are considered; however, qualified residents of Kansas are given preference.

Most of the accepted students for the 1989 entering class had a GPA above 3.5.

Financial Aid. A major source of assistance available for students in the University of Kansas School of Medicine is the Kansas Medical Scholarship. Two types of scholarships are awarded annually with a service requirement to practice primary care in Kansas one year for each year of participation. One type offers payment of tuition plus $500 each month to cover living expenses and requires service in a small town in Kansas. The second type pays tuition only and also requires service to be performed in a small town in Kansas. It is anticipated that 35 entering students will be allowed to receive this scholarship in 1991-92.

Numerous loans and scholarships also are available for students demonstrating a need for financial assistance. Over 85 percent of students enrolled in the School of Medicine receive some type of financial aid. Awards are based on an analysis of confidential information submitted by students on the American College Testing Family Financial Statement (see Chapter 6).

Minority students are encouraged to make application to National Medical Fellowships, Inc., for grant assistance.

Application forms for the above mentioned programs are available in the Office of Student Financial Aid; the telephone number is (913) 588-5170.

Information for Minorities. The School of Medicine has an active program dedicated to the recruitment, admission, education, and graduation of an increased number of individuals from ethnic minority groups. Minority faculty members participate in all aspects of the program. A prematriculation program is available for qualified candidates who have been accepted to medical school.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee: $15 for nonresidents
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Feb. 1, 1991
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $50, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 175 (40 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $5,770
  Nonresident: $11,916
Student fees: $145

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	241	874	1,115
Applicants Interviewed	224	162	386
New Entrants*	133	45	178

*100% took the MCAT; 99% had baccalaureate degrees.

University of Kentucky College of Medicine

Dr. Emery A. Wilson, Dean
Dr. Jayne L. Middleton, Associate Dean for Education
Linda A. Gilbert, Financial Aid Coordinator

Address inquiries to:
Admissions, Room MN-104
Office of Education
University of Kentucky College of Medicine
Chandler Medical Center
800 Rose Street
Lexington, Kentucky 40536-0084
(606) 233-6161

General Information. The Board of Trustees of the University of Kentucky authorized the establishment of the College of Medicine in 1954, and the first class was admitted in the fall of 1960.

The College of Medicine is part of the University of Kentucky Chandler Medical Center, which also includes colleges of nursing, dentistry, pharmacy, and allied health professions; the 433-bed University of Kentucky Hospital; the 348-bed Veterans Administration Medical Center; and the University Medical Plaza (ambulatory patients). The physical plant is located on the university campus in Lexington. The Medical Sciences Building includes instructional, laboratory, and administrative space for the College of Medicine and the Medical Center Library. Adjacent are the College of Dentistry, University of Kentucky Hospital, ambulatory care facility, University Student Health Service, Lucille Parker Markey Cancer Center complex, and Sanders Brown Center on Aging.

Accommodations are available in university operated apartments for single and married students. Personal and academic counseling services are provided, and the University Health Service provides medical care for students.

Curriculum. The curriculum is organized and presented to encourage study and thoughtful inquiry in a setting that enables the student to gain useful experience. Undergraduate medical students are taught the fundamental problems of human biology, how to recognize the causes of these problems, and how to prevent disease and treat patients. Students are expected to develop a sense of responsibility toward people and a sympathetic understanding of their beliefs and their economic and cultural background.

The objective of the first and second years is to provide knowledge of the biological, physical, and behavioral sciences that enables the student to understand the functions of the body as related to both health and disease. A special Independent Study Program in pathology is available for selected students.

The student's introduction to the duties and responsibilities of patient care takes place in the University of Kentucky Hospital and affiliated institutions offering comprehensive medical care. Through gradually expanding responsibilities under careful supervision, the student becomes a member of the medical team and participates daily in evaluation and management of patients. Elective opportunities for education in a variety of settings from tertiary to primary care are provided.

Letter grades are used, but the philosophy is one of self-competition.

Special programs for combined M.D.-Ph.D. degrees are available.

Requirements for Entrance. The MCAT and a minimum of three years of college are required. Students are strongly urged to have completed their baccalaureate degrees. It is recommended that applicants take the MCAT in the spring prior to making application. Course work must include:

	Semesters
Biology (with lab)	2
Chemistry (with lab)	4
Must include inorganic and organic chemistry.	
Physics (with lab)	2
English	2
Emphasis on communication skills.	

Students are strongly advised to balance their work in the natural sciences with courses in the social sciences and humanities and to pursue at least one subject in significant depth. For nonscience majors one or two advanced level natural science courses are helpful.

Selection Factors. As a state-supported school, the University of Kentucky College of Medicine gives preference to qualified residents of Kentucky. Only those applicants who have achieved a strong academic performance and have demonstrated breadth of training and efficient utilization of extra-curricular time are encouraged to apply. An academic average of B (3.0 on a 4.0 scale) and MCAT scores that total 36, with no individual subtest score below 4, are considered minimium levels for consideration. Personal references cannot be more than two years old. Final selection is made without regard to race, creed, sex, age, or national origin and is based on academic excellence, MCAT performance, personal qualifications, breadth of experience, personal recommendations, and interviews with college faculty.

The students accepted for the 1989 entering class had the following characteristics: *mean GPA*, 3.40; *sex*, 30 percent women; *residence*, 6 nonresidents; *undergraduate major*, 84 percent in the natural sciences, with the remainder from the social and behavioral sciences, engineering, and liberal arts.

The credentials of minority students and students from medically underserved areas of Kentucky are carefully reviewed by the Admissions Committee.

The College of Medicine makes every effort to recruit students who are well prepared and interested in its curriculum and programs.

Financial Aid. Limited numbers of scholarship grants are offered by the Office of the Dean to selected students with exceptional achievement.

Approximately 78 percent of the student body receive financial assistance through loans and scholarships. Institutional loan/scholarship assistance is available for eligible students, both residents and nonresidents. Resident students who plan to practice in rural Kentucky may receive aid from the Rural Kentucky Medical Scholarship Fund.

The Office of Education provides financial aid counseling for all students and assists them in applying for aid. Only in rare circumstances are students given permission to seek employment while enrolled.

Information for Minorities. Minority students are actively recruited. Scholarships are available for two qualified Kentucky resident black applicants each year.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee: None
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: During interview
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: March 1, 1991
Estimated number of new entrants: 95 (15 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $4,560
  Nonresident: $17,020

Student fees: $100

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	288	506	794
Applicants Interviewed	164	29	193
New Entrants*	85	6	91

*99% took the MCAT; 100% had baccalaureate degrees.

University of Louisville School of Medicine

Dr. Donald R. Kmetz, Vice President for Hospital Affairs and Dean
Dr. James C. Moore, Associate Dean for Admissions
Leslie Schmidt, Financial Aid Coordinator

Address inquiries to:
Office of Admissions
School of Medicine
Health Sciences Center
University of Louisville
Louisville, Kentucky 40292
(502) 588-5193

General Information. The School of Medicine was established at the Louisville Medical Institute in 1833 and became affiliated with the University of Louisville in 1846. In 1970 the university became a member of the state system of higher education. In the fall of 1970 the School of Medicine moved into the Health Sciences Center, which also includes the School of Dentistry, the Health Sciences Instructional Building, and the Health Sciences Library and Commons Building. The major clinical teaching activities take place in the University Hospital and four formally affiliated hospitals, which together supply more than 1,000 teaching beds in addition to extensive outpatient services.

Curriculum. The educational program includes three major components: the Core, the Elective Program, and the Clinical Elective Program. Revisions are instituted on an annual basis as a consequence of continuing evaluation, planning, and study by faculty and student curriculum committees.

The Core consists of those traditional basic and clinical science courses generally offered by all approved medical schools. The Elective Program was developed in recognition of students' individual interests, abilities, and goals. Approximately 10 percent of the first two years is devoted to elective courses utilizing the resources of the entire community.

In the senior year, approximately 50 percent of the curriculum is devoted to a clinical elective experience in which the student selects a member of the full-time faculty to work with. Through special arrangement students may fulfill the Clinical Elective Program requirement at another approved institution. This experience permits either special work in a clinical discipline, or one of its subspecialties, or research in a clinical or preclinical science.

Through the flexibility offered by the elective programs, students have an opportunity to construct a program of medical education that will most effectively develop their individual talents and interests. To assist students in their selection and for guidance and counseling purposes, there is a well organized adviser program in which each student entering the school is assigned a member of the full-time faculty.

A grade of pass or fail, a percentage score, a mean, a median, and a Z score are required in all preclinical courses; a grade of pass or fail and a subjective evaluation of the student's performance are required in all clinical core courses and all clinical elective courses.

Requirements for Entrance. The MCAT and three years of college are required. Applicants must have a minimum of three years (90 semester hours) of college education, exclusive of military service, physical education, and technical courses. Preference is given to applicants who will have a bachelor's degree before matriculating in the medical school. Minimal credit requirements are:

	Semesters
General biology (with lab)	2
General or inorganic chemistry (with lab)	2
Organic chemistry (with lab)	2
General physics (with lab)	2
College mathematics	2
Or one semester of calculus.	
English	2

Regardless of major concentration, applicants should demonstrate proficiency in the required science courses.

Selection Factors. Because the University of Louisville is a state institution, the School of Medicine gives preference to qualified residents of Kentucky. Applicants are selected on the basis of their individual merits without bias concerning sex, race, creed, national origin, age, or handicap. Admissibility is determined by the undergraduate college record, MCAT scores, recommendations of a preprofessional advisory committee, community and extracurricular activities, and personality and motivation of each applicant. A personal interview is arranged for each applicant whose credentials warrant complete exploration.

Some characteristics of students in the 1989 entering class were: *mean GPA*, 3.42; *sex*, 40 percent women.

Financial Aid. Financial needs of the applicant are not a consideration in the selection process. After acceptance every effort is made to assist students in meeting their financial requirements. Approximately 75 percent of the student body receive some degree of financial aid during the academic year. Scholarships are available on a limited basis and are granted according to demonstrated financial need and scholastic and professional promise. Student Research Scholarships are available to qualified students during the summer months.

Information for Minorities. Particular consideration is given to the evaluation of the credentials of minority students. The Admissions Committee is especially interested in qualified black applicants from this region.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $15
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: March 1, 1991
Estimated number of new entrants: 124 (20 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees
  Resident: $4,913
  Nonresident: $17,063

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	332	401	736
Applicants Interviewed	217	31	248
New Entrants*	114	10	124

*100% took the MCAT and had baccalaureate degrees.

Louisiana State University School of Medicine in New Orleans

Dr. Robert S. Daniels, Dean
Dr. John R. Ruby, Associate Dean for Admissions
James D. Comeaux, Director of Student Financial Aid

Address inquiries to:
Admissions Office
Louisiana State University
School of Medicine in New Orleans
1901 Perdido Street
New Orleans, Louisiana 70112-1393
(504) 568-6262

General Information. Louisiana State University School of Medicine was established in 1931 by authorization provided in the charter of Louisiana State University (LSU) and Agricultural and Mechanical College adopted in 1877. Constructed in New Orleans on grounds adjacent to Charity Hospital, the School of Medicine is a major unit in the LSU Medical Center, which includes schools of dentistry, nursing, graduate studies, and allied health sciences.

An extensive program of internship and residency training is supervised by the faculty.

A student housing facility is available. Furnished and unfurnished apartments are available for married and single students. Regular dormitory-type space is also available.

A medical education building was completed in 1981. This facility allows for the expansion of teaching and research programs.

Curriculum. The first two years of the curriculum are a combination of basic sciences and clinical medicine. Introduction to patient care and contact is provided during the second year in the Introduction to Clinical Medicine course. Third- and fourth-year teaching is on a pure block system and is basically small-group instruction (on a conference and seminar basis) in hospitals, clinics, and private practice facilities. Fourth-year students are given four elective blocks of their own choice. These may be completed at the School of Medicine or arranged with any other approved facility.

Although major emphasis is placed on training primary care physicians (family practice), opportunity for research and other specialized training is furnished. In addition, a combined M.D.-Ph.D. program is available for selected students.

The curriculum is under constant evaluation and review by both faculty and students.

Requirements for Entrance. The MCAT is required and must be taken at a time that enables scores to be received by the Admissions Office prior to the November application deadline to be considered for admission the following August. Applicants are strongly urged to complete the regular four-year undergraduate curriculum and take the appropriate strongly recommended courses before entering the study of medicine. The school is encouraging a better balance between the natural sciences, social sciences, and the humanities.

Acceptable credit hours must include:

	Sem. hrs.
Biology or zoology (with lab)	8
Preferably general zoology, embryology, comparative vertebrate anatomy, or microscopic anatomy.	
General or inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
Physics (with lab)	8
Covering heat, light, sound, mechanics, electricity, and magnetism.	
English	9

Recommended courses are: advanced mathematics, genetics, statistical methods, computer sciences, psychology, economics, history, and social studies.

Current policy precludes acceptance of advanced placement courses for credit toward fulfilling specific requirements in the sciences (biology, chemistry, and physics). The School of Medicine does not accept pass/fail grades for required science courses.

Selection Factors. Students are selected on the basis of character, intellectual ability, maturity, motivation, attitude, and past achievement as indicated both by excellent scholastic performance and active participation in extracurricular activities prior to entering medical school. There is no discrimination because of race, religion, sex, age, handicap, national origin, or financial status.

Students in the 1989 entering class had the following credentials: *mean science GPA,* 3.20; *mean total GPA,* 3.34; *sex,* 64 women.

Only residents of Louisiana are selected for the first-year class. Transfer students who are nonresidents may be considered for upper level classes. Determination of state residence is provided by LSU system regulations.

Interviews are arranged by invitation from the Committee on Admissions and are conducted at the LSU Medical Center facilities.

Financial Aid. Financial assistance is available for students through several different methods. There are direct scholarship programs, state and federal loan programs, work-study programs, and employment opportunities in the New Orleans area for students in their third and fourth years. Financial assistance information is available from the Student Financial Aid Office.

Information for Minorities. Members of minority groups who are legal residents of Louisiana are encouraged to apply. The School of Medicine's Office of Minority Affairs actively recruits minority students and provides counseling for high school and college students.

Further information may be obtained by contacting Dr. Edward Helm, assistant dean for minority affairs.

Timetable of Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee after screening: $30
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 175
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Resident: $4,776
  Nonresident: $12,576

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	438	210	648
Applicants Interviewed	309	0	309
New Entrants*	172	0	172

*100% took the MCAT; 90% had baccalaureate degrees.

Louisiana State University
School of Medicine in Shreveport

Dr. Darryl M. Williams, Dean
Dr. F. Scott Kennedy, Assistant Dean for Student Admissions
Dr. John H. Allen, Assistant Dean for Student Affairs

Address inquiries to:
Office of Student Admissions
Louisiana State University Medical Center
School of Medicine in Shreveport
P.O. Box 33932
Shreveport, Louisiana 71130-3932
(318) 674-5190

General Information. The Louisiana State University (LSU) School of Medicine in Shreveport, a four-year school, admitted its first class in 1969; the first M.D. degrees were awarded in 1973. Teaching takes place at the school's principal teaching hospital, Louisiana State University Hospital (675 beds), and at the affiliated Shreveport Veterans Administration Hospital (450 beds). Permanent medical school facilities, consisting of a basic and clinical science building, library, and Comprehensive Care Teaching Facility, were occupied in the winter of 1975.

Curriculum. The curriculum is traditional in general features but not entirely classical in detail. It is flexible to permit experimentation without disruption. Contact with patients begins early, paralleling a thorough grounding in the basic medical sciences. In addition to short courses in radiology, psychiatry, biometry, and physical examination, live clinics throughout the first and second years serve to indicate application of the basic sciences in clinical medicine. A wide variety of elective instruction is available to first- and second-year students, and one-third of the senior year is elective time on campus or at other institutions. A program of comprehensive care is woven through all four years. The third and fourth year are essentially rotating clerkships in the clinical disciplines. A letter grading system is employed: A, B, C, D (barely pass), and F (fail).

Requirements for Entrance. The MCAT and a minimum of three years of college (at least 90 semester hours) are required. A baccalaureate degree is desirable. Required courses are:

	Sem. hrs.
Biology or zoology (with lab)	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
English	6

Prospective applicants are strongly urged to take the MCAT by the spring of the year of application and to complete most of the required course work at time of application. They should pursue their own particular interests in selecting college courses not required for admission; a broad educational background is desirable.

Selection Factors. Admission is based upon character, motivation, intellectual ability, and achievement as judged by recommendations of premedical advisers, personal interviews with members of the faculty at the School of Medicine, college grades, and MCAT scores. In recent years, the number of applications filed by well qualified residents of Louisiana has been in excess of the number of places available. For this reason, places have not been offered to nonresidents. Determination of state residence is provided by LSU system regulations.

Accepted students for the 1989 entering class had the following credentials: *mean science GPA,* 3.3; *mean overall GPA,* 3.4; *sex,* 33 percent women (acceptance rate the same for men and women per number of applicants); *residence,* 100 percent from Louisiana; *undergraduate major,* 60 percent in biology or chemistry; *undergraduate college,* 40 schools represented.

The School of Medicine in Shreveport does not discriminate in applicant selection on the basis of race, sex, creed, national origin, age, or handicap.

Financial Aid. Scholarship and long-term, low-interest loan funds are available to students with financial need. In the past, no accepted students have been unable to meet their financial needs. Scholarships and loans are available to students all four years and are based on applications showing verified need. Certain awards are given in recognition primarily of academic accomplishment and promise. The school offers many summer employment jobs to students but does not advise employment during school sessions which would interfere with academic performance. Financial need has no bearing on an applicant's acceptance. Applications for financial assistance are furnished by the dean's office after students have been accepted and the class is firmly filled. Approximately 77 percent of the student body obtain financial aid in the form of loans.

Information for Minorities. Applications from minority students are encouraged and will be given every consideration.

Timetable of Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
Latest date: Nov. 15, 1990
School application fee to all applicants: $30
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Nov. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 100
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Resident: $4,776
  Nonresident: $12,576

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	392	116	508
Applicants Interviewed	203	0	203
New Entrants*	100	0	100

*100% took the MCAT; 83% had baccalaureate degrees.

Tulane University School of Medicine

Dr. Vincent A. Fulginiti, Dean
Dr. W. Clifford Newman, Associate Dean
Dr. Joseph C. Pisano, Chairman,
Financial Aid Committee

Address inquiries to:
Office of Admissions
Tulane University
School of Medicine
1430 Tulane Avenue
New Orleans, Louisiana 70112
(504) 588-5187

General Information. Tulane University School of Medicine, founded in 1834, is a private, nonsectarian institution located in New Orleans. Adjacent to the School of Medicine is its principal teaching hospital, Charity Hospital of New Orleans, which has about 1,650 beds and large outpatient clinics. A new facility, the Tulane Medical Center Hospital and Clinic, has recently been incorporated into the medical school teaching programs. Other affiliated teaching hospitals include eight hospitals in New Orleans and seven hospitals in other communities in Louisiana.

Curriculum. The School of Medicine offers a 144-week program leading to the M.D. degree. A student generally completes the program over four calendar years. The emphasis in the first two years is on the principles of the basic medical sciences and correlation of these principles with individual and community health problems. Clinical aspects of the basic sciences are emphasized throughout the first two years. The third and fourth years provide experience in clinical settings of patient care and community health programs. Flexibility is attained by allowing one-third of scheduled curriculum time for elective courses and selected advanced studies. A number of interdisciplinary courses are offered by the combined faculties of basic and clinical science departments. A medical student may enroll concurrently in a graduate program and obtain the M.S., M.P.H., or Ph.D. degree along with the M.D. degree. The course of study and grading methods are under review at all times by faculty and students.

Requirements for Entrance. The MCAT and a minimum of three years of college or 90 semester hours are required. Four years of college and the baccalaureate degree are recommended.

Applicants are urged to take the MCAT in the spring of the year of application and to have their basic science requirements completed at the time of application. The required courses are:

	Sem./Qtr. hrs.
Biology or zoology (with lab)	8/12
Inorganic chemistry (with lab)	8/12
Organic chemistry (with lab)	8/12
General physics (with lab)	8/12
English	6/9

In premedical preparation, the major program need not be in one of the science fields. Students are urged to follow their own inclinations in choosing a course of study, recognizing that a physician should have a broad educational background.

Selection Factors. In evaluating applicants, the Committee on Admissions relies on such criteria as grade averages, MCAT scores, faculty appraisal from the applicant's college, special accomplishments and talents, and the substance and level of courses taken in a particular college. Most successful applicants have attained a GPA of 3.5. Because of national priorities, most students accepted must be U.S. citizens. Personal character of the highest order is required along with strong motivation, great potential, and evidence of high-level performance. Tulane University does not discriminate on the basis of race, sex, creed, age, national origin, or handicap.

All completed applications are read in full by members of the Committee on Admissions. Personal interviews are held in New Orleans. Following interview sessions, the committee reviews again an applicant's record during one of its regular weekly meetings. The committee holds the authority to decide whether a candidate should be accepted, rejected, or held for further evaluation at a later date.

Financial Aid. Scholarships, long-term loans, and a tuition deferment plan are available to students based on an analysis of the individual's financial needs. More than two-thirds of the students receive some form of financial assistance during their four years of study.

First-year students ordinarily are not encouraged to undertake employment during the session; this is also true for students in the other years if their scholastic standing would be jeopardized. A number of paid externships are available in the local hospitals. A limited number of summer research fellowships are available in most departments of the school.

Information for Minorities. Tulane encourages qualified minority and disadvantaged students to apply. Special activities available for, but not limited to, minority students include summer enrichment programs prior to entering medical school and tutorial and counseling services for students in medical school. These services are available through MEDREP, the Student Academic Services Committee, and other groups and programs. The Committee on Admissions includes minority members, but there is no separate review for minority applicants or for any other special group.

Timetable of Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $55
Oldest MCAT scores considered: 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: June 15, 1991
Estimated number of new entrants: 148
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees: $21,500

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	274	3,917	4,191
Applicants Interviewed	72	632	704
New Entrants*	22	126	148

*100% took the MCAT and had baccalaureate degrees.

Johns Hopkins University School of Medicine

Dr. Richard S. Ross, Dean
Dr. Norman D. Anderson, Assistant Dean for Admission
Sandra Morse, Financial Aid Officer

Address inquiries to:
Committee on Admission
Johns Hopkins University
School of Medicine
720 Rutland Avenue
Baltimore, Maryland 21205-2196
(301) 955-3182

General Information. Johns Hopkins University School of Medicine is a private, nondenominational institution which fosters the training of medical practitioners, teachers, and biomedical scientists. The medical center provides: library facilities, the Reed Residence Hall, off-campus housing assistance, cafeterias, recreational sports in the Cooley Center, and performing arts programs.

Preclinical courses are given in the adjacent basic science complex. Tertiary care facilities and an extensive and diverse patient base at the Johns Hopkins Hospital provide for the teaching of all clinical subjects. Students attend educational programs conducted at community-based hospitals in Baltimore and pursue elective experiences at other medical schools in the United States and foreign countries. Students may also enroll for special studies or seek advanced degrees in any component of the Johns Hopkins University.

Curriculum. The Johns Hopkins curriculum provides sound foundations in basic sciences and clinical medicine while retaining the flexibility required for students to identify and to develop diverse career interests. The regular M.D. program includes: faculty advising with career counseling for each student, integration of clinical teaching into preclinical courses, core clinical clerkships where students progressively assume responsibilities for patient care, and elective opportunities which offer each student an individualized educational experience. Accelerated programs permit selected students to complete an internship during the final medical school year or to obtain combined M.D. and M.P.H. degrees in a four-year study sequence.

Students interested in academic medicine can obtain combined M.D.-Ph.D. degrees by pursuing coordinated graduate studies in: biochemistry and molecular biology, biomedical engineering, biophysics, cell biology and anatomy, epidemiology, history of medicine, human genetics, microbiology and immunology, neurosciences, pharmacology, and physiology. Candidates accepted for M.D.-Ph.D. studies can also apply for financial support through the Medical Scientist Training Program which provides full tuition and stipend.

The Flexible Medical Admissions Program (FlexMed) provides opportunities for assured admission and delayed matriculation into the School of Medicine so that students can both plan and pursue alternative education, work experience, or humanitarian service which will enhance their future careers in medicine. The Senior Year Option permits graduating students to defer medical school entry for up to three years as they explore other avenues of career development. The Junior Year Option offers assured acceptances to relieve third-year students from grade and MCAT competition as they complete baccalaureate studies at their home campus, in overseas programs, or by transferring to the John Hopkins School of Arts and Sciences. These students may also defer medical training for a total of three years to participate in international fellowships or other worthy experiences. Another variation permits accepted juniors to matriculate directly into the School of Medicine if their college agrees to award the baccalaureate degree after completion of the first year of medical studies. Because FlexMed is a collaborative venture, students' plans for utilizing the various options must be supported by their colleges and approved by the School of Medicine.

Johns Hopkins does not participate in AMCAS. Application requests should be sent directly to the Committee on Admission.

Requirements for Entrance. The MCAT is not required for admission. All applicants must provide one official score from a single Scholastic Aptitude Test (SAT), American College Test (ACT), or Graduate Record Examination (GRE) taken previously. MCAT scores must be substituted by applicants who have never taken the above tests or by applicants who feel that the MCAT best represents their standardized testing skills. The B.A. degree or equivalent must be received prior to matriculation into all programs or by the end of the first medical school year for students participating in FlexMed Junior Year Options as described above. Students are encouraged to complete coherent studies of sciences and liberal arts consistent with their undergraduate major. Required courses are:

	Sem. hrs.
General biology (with lab)	8
General chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
Humanities and social and behavioral sciences	24
Calculus	4

Advanced placement credit is acceptable for meeting the calculus requirement. Advanced placement credit is acceptable for all other required courses when supported by one semester of advanced studies in the same discipline. All other requirements must be evaluated by a traditional grading system other than pass/fail grades.

Selection Factors. In addition to proven academic competence, previous achievements and activities help the Committee on Admission to evaluate applicants' suitability for medicine. Students who have unusual talents, strong personal qualities, demonstrated leadership, and creative abilities are sought. There are no residence requirements for U.S. citizens, and applications are invited from candidates in all sections of the country. The Johns Hopkins University complies with federal and state law prohibiting discrimination. Full consideration is given to all applicants without regard to sex, age, race, creed, or national and ethnic origin.

Financial Aid. Financial aid in the form of grants and loans is awarded solely on the basis of need. Financial considerations do not influence admissions decisions. Approximately 69 percent of matriculating students receive financial assistance. Students are awarded financial aid packages to fully meet their demonstrated financial need. Student fellowship stipends are frequently available for projects carried out in summers.

Non-U.S. citizens without permanent resident or immigrant visa status are not eligible to receive financial aid because of government restrictions on funds which support the aid program. Qualified foreign students receive final acceptance only after establishing an escrow account acceptable to the School of Medicine that is sufficient to meet all tuition, fees, and living expenses for the anticipated period of enrollment.

Information for Minorities. The school is committed to the enrollment and education of individuals from all disadvantaged groups. For information write Dr. Roland Smoot, assistant dean for student affairs.

Application and Acceptance Policies for 1991-92 First-Year Class

Dates in italics are for FlexMed Junior Year Option.

Filing of application
  Earliest date: July 1, 1990
  Latest date: Nov. 15, 1990; *Jan. 31, 1991*
School application fee to all applicants: $60
Oldest MCAT scores considered: 1977
Does have Early Decision Program (EDP)
  EDP application period: July 1-Aug. 15, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Nov. 1, 1990; *June 15, 1991*
  Latest date: March 30, 1991; *June 15, 1991*
Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes (FlexMed Senior Year Option)
Deposit to hold place in class: None
Estimated number of new entrants: 120 (3 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $15,500

Student fees: $1,455

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	252	2,384	2,636
Applicants Interviewed	78	644	722
New Entrants*	19	101	120

*82% reported the MCAT; 100% of students matriculating into four-year program had baccalaureate degrees.

University of Maryland School of Medicine

Dr. John M. Dennis, Dean
Dr. Milford M. Foxwell, Jr., Associate Dean for Admissions
Ernestine Whiting, Director of Financial Aid

Address inquiries to:
Committee on Admissions
Room 14-015
University of Maryland
School of Medicine
655 West Baltimore Street
Baltimore, Maryland 21201
(301) 328-7478

General Information. The University of Maryland School of Medicine is the fifth oldest medical college in the United States. It was organized in 1807 and chartered in 1808 under the name of the College of Medicine of Maryland; the first class was graduated in 1810. Among the first to erect its own hospital for clinical instruction in 1823, the University of Maryland established the first intramural residency for senior students.

Along with the other professional schools of the University of Maryland (dentistry, law, nursing, pharmacy, social work, and the graduate schools of basic sciences), the School of Medicine is located on the Baltimore City Campus, which is adjacent to the downtown Charles Center and Inner Harbor.

The University of Maryland Medical System and affiliated hospitals in and around Baltimore have more than 1,400 general hospital beds for teaching purposes.

Curriculum. Students pursue a program in the first two years consisting of most of the basic sciences common to all medical schools. Increased elective experiences will be available early in both the basic and clinical sciences. Time is available during the first two years for research and interdisciplinary study. The third year is devoted to basic clinical clerkships and the fourth year to advanced clinical work, both elective and required. Ambulatory care and some medical specialties are included in this portion. A major portion of the fourth year is available for elective experiences on the Baltimore campus and (with approval) elsewhere for no more than two months.

Programs offering combined degrees (M.D./Ph.D. and M.D./M.S.) are available for selected applicants. Application forms are included in the Stage II packet.

Although the schedule of training can be flexible, the M.D./Ph.D. student typically completes the freshman and sophomore years of medical school first, receiving graduate credit for many of the preclinical courses taken. During this period, students use the minimesters and summer sessions to participate in research projects in their basic science department. They may rotate through the various laboratories in order to facilitate the choice of a thesis adviser. In addition, combined-degree students attend research seminars in their graduate department.

After the preclinical years, M.D./Ph.D. students perform as full-time graduate students for approximately two years, taking the required graduate courses and seminars and focusing on the dissertation research. Following this period, students begin the two years of clinical clerkships. Elective time during the clinical years may be used to complete Ph.D. research.

For the M.D./M.S. in preventive medicine program, the student usually completes the M.S. portion during summers and elective times.

Requirements for Entrance. The MCAT and at least 90 semester hours of accredited arts and science college credit are required. Preference is given to applicants who will have earned a bachelor's degree. The following courses must be completed prior to matriculation:

	Sem. hrs.
Biological sciences	8
Inorganic chemistry	8
Organic chemistry	6
General physics	8
English	6

Applicants should major in the academic area of their interest. If a nonscience major is selected, sufficient science courses should be taken to acquaint the applicant with the demands of a science oriented curriculum.

The MCAT must be taken no later than the fall test period of the year in which application is made. It is recommended that the MCAT be taken within the four years preceding the anticipated date of matriculation.

Selection Factors. Applications are accepted from citizens and permanent residents of the United States and Canada only. Rare exceptions are made for excellent students who anticipate receiving their permanent resident visas by matriculation. All applicants from Maryland are permitted to submit a direct application (Stage II) after the AMCAS application is received. Nonresident applicants are sent a Stage II application only upon recommendation of the Committee on Admissions. The deadline for the Stage II application is December 1. Applications from nonresidents may be rejected on the basis of GPA and MCAT scores that appear on the AMCAS application.

Interviews are arranged for those applicants who appear to have the academic qualities required for successful completion of the requirements for graduation from the School of Medicine. Applications may be rejected from both residents and nonresidents without an interview.

Selections are based on a careful appraisal of academic achievement, performance on the MCAT, letters of recommendation, extracurricular activities, and interviews by faculty members.

Accepted students for the 1989 entering class had the following characteristics: *average GPA*, 3.5 (range 2.5-4.0); *MCAT average*, 60 (range 40-74); *undergraduate major*, about 52 percent science majors; *sex*, 45 percent women.

The University of Maryland School of Medicine does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

Financial Aid. The school makes available financial aid in the form of scholarships and loans to those students with demonstrable financial need. The amount of the award varies according to the student's needs and the level of funding available. About 70 percent of the students are receiving some degree of financial aid.

Information for Minorities. The University of Maryland School of Medicine is committed to attacking the problems created by underrepresentation of disadvantaged students in the applicant pool. The dean for minority affairs actively participates in the search for qualified students and assists the Committee on Admissions in the preliminary appraisal of applications. There is no fixed quota for any special group within the total pool of applicants.

Further information may be obtained from Dr. Robert Harrell, assistant dean for minority affairs, Room M-006 at the School of Medicine.

Timetable of Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $25
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 1, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 140 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $7,240
  Nonresident: $14,652

Student fees: $1,058

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	597	1,808	2,405
Applicants Interviewed	282	266	548
New Entrants*	118	24	142

*100% took the MCAT and had baccalaureate degrees.

Uniformed Services University of the Health Sciences
F. Edward Hébert School of Medicine

Dr. Jay P. Sanford, Dean and President
Peter J. Stavish, LTC, MS, USA (Ret),
Director of Admissions and Registrar
Joan C. Stearman, Associate Director of Admissions

Address inquiries to:
Admissions Office, Room A-1041
Uniformed Services University
of the Health Sciences
F. Edward Hébert School of Medicine
4301 Jones Bridge Road
Bethesda, Maryland 20814-4799
(301) 295-3101

General Information. Created by public law in 1972, the Uniformed Services University of the Health Sciences (USUHS) was founded to prepare young men and women for careers as health care professionals in the uniformed services. The USUHS School of Medicine admitted its charter class in 1976. The school is located on the grounds of the Naval Hospital in Bethesda, Maryland. The school operates in close association with many federal health resources located in the greater Washington, D.C., area to provide students with a broad range of educational experiences in both the basic sciences and clinical medicine. The school's charter is to provide a comprehensive education in medicine to select individuals who demonstrate potential for, and commitment to, careers as medical officers in the uniformed services.

Curriculum. The school has a four-year program culminating in the doctor of medicine degree. Each of the first three academic years is 48 weeks, and the final year runs 40 weeks. Basic science instruction predominates in the initial two academic years, with the final two years being devoted to clinical education. Basic science instruction is, as appropriate, correlated—both interdisciplinarily and clinically. The integration between the clinical and basic sciences is progressive and proceeds with involvement in patient care activities early in the curriculum, starting with the first semester of the freshman year. While the overall program is designed to educate students to serve as providers of primary health care, there is sufficient flexibility in the curriculum to accommodate differences in interests among students and also sufficient substances to enable graduates to pursue postgraduate activities such as research. Elective courses are offered in clinical and research facilities in this country and in areas of the world where diseases rarely seen in the United States are responsible for 80 percent of the morbidity and mortality. The curriculum also includes basic military orientation and concentration on unique aspects of military medicine. A conventional letter grading system is employed to record student progress.

Requirements for Entrance. Applicants must be U.S. citizens between the ages of 18 and 27 and must meet the physical and personal qualifications for a commission in the uniformed services. Applicants cannot be more than 27 years of age as of June 30 in the year of matriculation. Military applicants who have the appropriate creditable service may be considered for a waiver through age 33. The MCAT and a baccalaureate degree are required.

The following courses are required:

	Sem. hrs.
General biology (with lab)	8
General or inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
Physics (with lab)	8
College mathematics through calculus	6
English	6

CLEP and advanced placement credits are acceptable for required courses. However, individuals exempted from prerequisites through these programs are required to take formal course work in the same areas at a more advanced level.

Both qualified civilians and military personnel are eligible to apply. However, individuals who are in military service or a program of study sponsored by the Armed Forces (including ROTC and the service academies) must obtain a "Letter of Approval to Apply" from their respective services before making application.

Selection Factors. The school employs a three-stage, progressive screening process for selecting entrants. The first stage consists of the submission of the standard AMCAS application form; the second, the submission of supplementary materials (three letters of recommendation and a personal statement describing the applicant's knowledge of and interest in a career in the service are required); and the third, personal interviews, which are conducted at the medical school campus and at select regional sites. Advancement in the process is competitive, based on candidates' personal and intellectual characteristics. Applicants should not send transcripts, letters of recommendation, or other such materials unless specifically requested to do so by the Committee on Admissions. The Committee on Admissions does not discriminate on the basis of sex, race, religion, marital status, or national origin. The USUHS School of Medicine is a federal institution and does not give any preference based on state of residence.

There were 1,863 applicants for the 1989 first-year class. Of this total, 520 were interviewed. All new entrants took the MCAT and had baccalaureate degrees.

The 162 matriculants to the 1989 entering class had the following credentials: *mean* GPA, 3.45; *mean MCAT*, 9.2; *mean age at time of application*, 22.9 years; *sex*, 20 percent women; *undergraduate major*, 32 percent in biology, with chemistry ranking second and engineering, physics, international relations, biochemistry and microbiology among the other disciplines represented; *residence*, 32 percent from northeastern states, 32 percent from western states, 22 percent from southern states, 14 percent from central states.

Service Benefits and Military Obligation. Upon entering the first-year class of the School of Medicine, the student will be commissioned and will serve on active duty in the grade of second lieutenant in either the Army or Air Force or ensign in the Navy or in the Public Health Service, receiving the appropriate pay and benefits of that grade. All incoming students will be affected by the new military retirement system if not in the military prior to August 1, 1986. The time spent in medical school is not creditable toward retirement until retirement eligibility has been established.

If current promotion policies continue, the student can expect a promotion in rank to captain in the Air Force or Army or lieutenant in the Navy or Public Health Service upon receipt of the M.D. degree. Graduates are obligated to serve on active duty as medical officers for not less than seven years. The period of time spent in internship or residency training shall not be acceptable toward satisfying this seven-year obligation. A student who is dropped from the program for either academic deficiencies or other reasons may be required to perform active duty in an appropriate military capacity for a period equal to the time spent in the program. However, one year will be the minimum required active duty for persons separated from the school regardless of the time spent in the program.

Information for Minorities. The School of Medicine has a Minority Affairs Program. This program was designed to give competitive minority applicants whatever assistance may be necessary during the admissions process. There is no separate application or process for minority applicants.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee: None
Oldest MCAT scores considered: 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Nov. 1, 1990
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 162
Starting date: July 1991

Expenses per Year for 1989–90 First-Year Class

Tuition and other expenses

There are no tuition charges for attending the School of Medicine. Required books, equipment, and instruments are also furnished without charge. Students are required to pay for housing, food, entertainment, and other expenses from their annual salary.

Boston University
School of Medicine

Dr. Aram V. Chobanian, Dean, School of Medicine
Dr. John F. O'Connor, Associate Dean for Admissions
Charles Terrell, Associate Dean for Financial Management

Address inquiries to:
Admissions Office L-124
Boston University
School of Medicine
80 East Concord Street
Boston, Massachusetts 02118
(617) 638-4633

General Information. In 1848 the New England Female Medical College was founded as the first medical college for women in the world. In 1873 the original buildings and endowment were acquired by Boston University, and the name was changed to Boston University School of Medicine. At present the School of Medicine, School of Graduate Dentistry, School of Public Health, Centers for Advancement in Health and Medicine, and University Hospital comprise the Boston Medical Center. All professional medical activities at Boston City Hospital are vested in the School of Medicine, and that hospital together with 21 other health care facilities affiliated with the Medical Center affords students varied and rich clinical experiences.

Curriculum. The curriculum provides the opportunity to study medicine in a flexible environment that stimulates a spirit of critical inquiry and provides sound knowledge in the biological, social, and behavioral sciences in order to deal with human disease.

During the first year, the basic medical sciences are emphasized in both departmental and interdisciplinary courses. Human development and community medicine are also presented.

The second-year program is a continuation of the basic science courses and the introduction of the clinical sciences and physical diagnosis, which are presented in an integrated multidisciplinary format. During this time the student learns the basic techniques of clinical medicine, including history-taking and physical examination.

The third year represents the major clerkship year. In addition to the conventional clerkships in medicine, surgery, pediatrics, obstetrics, and psychiatry, a clerkship in ambulatory-community care is provided.

The fourth year is devoted to developing specific elective programs under the supervision of a faculty member.

With the approval of the Promotions Committee, students may complete the first-year requirements over two academic years by taking half the normal course load each year without paying any additional tuition.

In addition to the traditional M.D. degree, students may also pursue a pathway of study leading to the M.D.-Ph.D. or M.D.-M.P.H.

Requirements for Entrance. Applicants are required to have a baccalaureate degree from an approved college of arts and sciences. Occasionally a candidate of unusual ability is accepted after three academic years in an undergraduate school if the minimum entrance requirements of 90 semester hours have been satisfactorily completed. The following courses are required:

	Years
Biology (with lab)	1
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
Physics	1
Humanities	1
English composition or literature	1

A knowledge of a quantitation in chemistry is recommended.

Calculus is recommended but not required.

Applicants are urged to acquire a broad background in the humanities and behavioral and social sciences in their college years.

All required courses must be completed before medical school work begins. If an applicant has been excused from a required college level course, another course at the same or higher level must be substituted. Courses taken in high school do not fulfill the requirements.

The MCAT is required. Applicants are strongly urged to take the MCAT in the spring of the year of application and to have most of their basic science requirements completed at the time of application. Applicants who have not taken the MCAT by the fall of the application year will not be considered.

Selection Factors. The Committee on Admissions chooses applicants who seem best qualified not only by scholastic record, college recommendations, and involvement in college and community activities but also by qualities of personality, character, and maturity. A personal interview is an integral part of the admissions process. Applicants who have not heard from the School of Medicine by March 1 and still wish to be considered for an interview should contact the Admissions Office. All interviews are granted at the discretion of the Committee on Admissions. The School of Medicine does not discriminate on the basis of race, sex, age, creed, or national origin.

A student desiring a deferment must register and request a leave of absence to be granted at the discretion of the associate dean of student affairs; no deferments are permitted.

Financial Aid. The school is committed to equal financial access for all students demonstrating need as determined by the uniform method of needs analysis. It, therefore, initiated a series of low-interest student revolving loan funds in 1975. Since that time it has tried to reverse the cycle of mounting market-rate debt.

Student assistance is available to students in all years of the medical school curriculum; 40 percent of the student body receive institutional assistance; 90 percent receive institutional and/or outside support assistance. The school's Office of Student Financial Management administers its portfolio of 40 revolving loans, assists students in securing aid from outside sources, conducts debt management seminars and activities, conducts all required entrance and exit interviews, and provides daily student financial managment information. Grant aid is minimal, equaling 10 percent of student aid in full-need cases. All assistance is based upon need. Upon acceptance students are automatically sent a student assistance response card which generates all necessary forms and information. Financial need is not considered in the admissions process.

Information for Minorities. Programs for the recruitment and support of minority students have been developed through the Office of Minority Affairs. One of these programs allows students to take special summer courses in anatomy, biochemistry, and knowledge acquisition skills prior to matriculation in the fall. Minority applications are processed through the regular Committee on Admissions in consultation with the Office of Minority Affairs. It is possible to have application fees defrayed.

Timetable of Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $75
Oldest MCAT scores considered: 1985
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Nov. 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class: None
A tuition payment of $500 is due June 15, 1991; nonrefundable
Estimated number of new entrants: 135 (5 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $22,300

Student fees: $10

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	*	*	4,978
Applicants Interviewed	899	*	*
New Entrants†	47	88	135

*Data not available.

†100% took the MCAT; 86% had baccalaureate degrees (excluding students from six-year program).

Harvard Medical School

Dr. Daniel C. Tosteson, Dean
Dr. Gerald S. Foster, Director of Admissions

Address inquiries to:
Director of Admissions
Harvard Medical School
25 Shattuck Street
Boston, Massachusetts 02115
(617) 432-1550

General Information. Harvard Medical School was established in 1782. It has occupied its present site in the Longwood Avenue Quadrangle since 1906. Adjacent are the Harvard School of Public Health, the Harvard School of Dental Medicine, and the Francis A. Countway Library. Clinical teaching is carried out in several general and specialized hospitals. These include Massachusetts General, Brigham and Women's, Children's, Beth Israel, New England Deaconess, Massachusetts Eye and Ear, Mount Auburn, and Cambridge hospitals. The Massachusetts Mental Health Center and the McLean Hospital are psychiatric facilities associated with Harvard Medical School. The Harvard Community Health Plan and other community-based health centers provide additional opportunities for patient care, teaching, and research. Vanderbilt Hall provides living facilities and a dining hall for single students. Apartments for married students may be found nearby.

Programs. The Standard Program is designed to accommodate the variety of interests, educational backgrounds, and career goals that characterize the student body. Over the past several years there has been an in-depth review and restructuring of the curriculum of this program. The goals and core themes of medicine covered are the same as in a traditional curriculum, but the approaches to learning are different. Small group tutorials utilizing case-based discussions and independent study are the primary methods of learning. These are supplemented by laboratory exercises, clinical skills sessions, patient care experiences, and lectures. Computer-based instruction augments these activities and facilitates data management and access to the medical literature.

The preclinical science courses are taught in this fashion. Clinical clerkships and a wide variety of elective courses and research opportunities are available at Harvard Medical School, its affiliated hospitals, Harvard University, and the Massachusetts Institute of Technology (M.I.T.). One-hundred-thirty-five students are admitted to this program each year.

The Harvard-M.I.T. Division of Health Sciences and Technology Program (HST) was established jointly by the faculties of these two institutions. The curriculum of this program is designed for the student with a strong interest and background in quantitative science. Courses in the first two years are taught separately at Harvard Medical School and M.I.T. and are in a semester format. HST students join students of the Standard Program for their clinical rotations. Thirty students are admitted to this program each year.

The M.D.-Ph.D. program exists for qualified applicants who wish to integrate medical school and intensive scientific training. Graduate study and research for the Ph.D. are pursued through one of the basic science departments or committees of the Division of Medical Sciences, other departments of the Harvard Graduate School of Arts and Sciences, or the Graduate School of Science and Engineering at M.I.T.

Other joint programs are offered in collaboration with the Harvard School of Public Health and the John Fitzgerald Kennedy School of Government.

Academic Societies. All students are assigned to one of five academic societies. The societies offer the perspective of smaller groupings of students and faculty who will work together during their time at Harvard Medical School. Each society has a home base in the Medical Education Center—a new teaching facility.

Requirements for Entrance. The MCAT and at least three years of college are required. A baccalaureate degree is preferred.

Biology: One year with laboratory experience. Courses taken should deal with the cellular and molecular aspects as well as the structure and function of living organisms.

Chemistry: Two years with laboratory experience. Full-year courses in general (or inorganic) and organic chemistry meet this requirement. Other options that adequately prepare students for the study of biochemistry and molecular biology in medical school will be acceptable.

Physics: One year.
Mathematics: One year of calculus.
Expository writing: One year. May be met with writing, English, or nonscience courses that involve expository writing.

HST Program: Requirements are the same as above except that calculus through differential equations and calculus based physics is required. A course in biochemistry is encouraged.

A variety of course formats and combinations that provide equivalent preparation will be accepted. Advanced placement credits may be used to satisfy the calculus requirement and one semester of the chemistry and physics requirements. In addition to the writing requirement, at least 16 credit hours should be completed in nonscience courses. No preference is shown toward students majoring in the sciences over students majoring in nonscience areas.

Foreign students must have completed at least one year of study in an approved college or university in the United States or Canada before applying. Students who are or have been enrolled in medical school or who have been refused admission by us on two prior occasions are ineligible to apply.

Selection Factors. Although academic excellence is expected, a minimal specific grade-point average is not required. Grades are evaluated in terms of the degree of difficulty of each course taken. Other factors considered include the MCAT scores, the essay written by the student, extracurricular activities, summer occupations, and life experiences. Research and community work and comments contained in letters of recommendation are considered. The Committee on Admissions looks for evidence of integrity, maturity, concern for others, leadership potential, and an aptitude for working with people. Interviews are scheduled selectively and include regional interviews for those applicants who are unable to come to Boston.

The Committee on Admissions welcomes applications from qualified students representing groups which historically have had few members in the field of medicine. Harvard Medical School is committed to the enrollment of a diverse body of talented students who will reflect the character of the American people whose health needs the medical profession must serve.

Financial Aid. The financial needs of a candidate are not considered during the selection process. All financial aid is awarded on the basis of need. A vigorous effort is made to assist accepted applicants in meeting their medical education costs through loans, medically related employment, and scholarships.

Timetable of Application and Acceptance Policies for 1991-92 First-Year Class

Request for application
  Prior to: Oct. 8, 1990
School application fee to all applicants: $60, due with request for application; nonrefundable
Filing of application
  Earliest date: May 1990
  Latest date: Oct. 15, 1990
Oldest MCAT scores considered: 1985
Does not have Early Decision Program

Acceptance notice to regular applicants
  Earliest date: Dec. 1990
  Latest date: Feb. 1991
Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 165
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $16,850

Student fees: $1,395

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	191	2,138	2,329
Applicants Interviewed	*	*	868
New Entrants†	13	157	170

*Data not available.
†100% took the MCAT.

University of Massachusetts Medical School

Dr. Aaron Lazare, Interim Dean
Dr. Jeffrey D. Bernhard, Associate Dean for Admissions
Judith L. Case, Director of Financial Aid

Address inquiries to:
Associate Dean of Admissions
University of Massachusetts Medical School
55 Lake Avenue, North
Worcester, Massachusetts 01655
(508) 856-2323

General Information. The University of Massachusetts Medical School is located on the Worcester campus in a new physical facility which combines basic and clinical sciences with a 360-bed hospital. Clinical teaching is presently conducted in the University of Massachusetts Medical Center and in affiliated community hospitals in Worcester, Springfield, and Pittsfield.

Curriculum. The curriculum of the first two years focuses on basic sciences, with special attention to clinical correlation of the subject matter. Emphasis in the first year is on normal structure and function, and there are a three-week field clerkship in family and community medicine and a course in human genetics. Emphasis in the second year is on the etiology of disease, pathophysiology, pharmacology, and clinical diagnosis. There is also an introduction to epidemiology, preventive medicine, medical care, and psychiatry.

The third and fourth years are a continuum of required clinical clerkships and both clinical and research electives.

A combined M.D.-Ph.D. program in basic medical sciences is also offered. It is recommended that applicants for this combined program take the advanced Graduate Record Examinations (GRE) in an appropriate field, for example, biology, chemistry, or physics. In addition to the application to AMCAS, candidates should submit an application for the Ph.D. program and have three letters of reference documenting the applicant's research aptitude and potential sent to the Office of Graduate Studies. Further information and application forms may be obtained from the dean of graduate studies at the above address. The faculty of the Medical School also encourages the medical students to participate in research programs in basic and clinical science departments.

Requirements for Entrance. The MCAT is required. All applicants must have three years of college; a bachelor's degree is recommended. Required courses are:

	Years
Biology (with lab)	1
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
Physics (with lab)	1
English	1

Credit for any secondary school course may be given only if such credit appears on the college transcript. Applicants may major in the areas of either sciences or humanities, and in either case independent study is encouraged. Students able to do so are encouraged to take such courses as biochemistry, calculus, statistics, sociology, or psychology. Applicants are encouraged to complete the basic science requirements by the time of application since consideration will be delayed if required courses are in progress.

Selection Factors. Current policy limits admission to students who are Massachusetts residents. The Committee on Admissions bases its evaluation of applicants on academic achievement, scores on the MCAT, and such factors as extracurricular activities, maturity, motivation, and character as these are reflected in letters of recommendation from preprofessional advisory committees and other persons. Interviews are arranged for candidates deemed most likely to be admitted. Applicants are selected on the basis of their individual merits without regard to race, sex, creed, or national origin. All supplementary materials must be received by January 15.

Accepted students for the class entering August 1989 had the following credentials: *science GPA,* approximately 3.5; *sex,* 43 percent women; *undergraduate major,* 60 percent in science and 40 percent in nonscience.

Financial Aid. Students whose financial need cannot be met by personal and family resources and by available outside funds should apply for school-administered financial aid. The deadline for receipt of all application materials in the Financial Aid Office is March 15. Incoming students are mailed financial aid applications as they are accepted. Students accepted after December 31 are given two months from the institution's letter of acceptance date to complete the entire financial aid application.

The financial aid application comprises the University of Massachusetts Medical School Financial Aid Application Form, the Massachusetts Financial Aid Form of the College Scholarship Service, parental and student federal income tax returns and W-2 forms, parental and student Internal Revenue Service Form 4506-Request for Copy of Tax Form, student state income tax return, and financial aid transcripts from all educational institutions previously attended. All students and prospective students must file the Massachusetts Financial Aid Form by March 1 to ensure consideration for the Massachusetts State Scholarship.

Financial aid funds are disbursed in accordance with institutional packaging policy established by the Student Affairs Committee. Approximately 75 percent of the student body receive some form of financial assistance. The institution offers scholarship, loan, and/or employment opportunities to its students.

Information for Minorities. Applications from members of minority groups who are legal residents of Massachusetts are encouraged.

Timetable of Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1989
School application fee to all applicants: $18
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  For Massachusetts residents only
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 100 (20 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition

The Massachusetts legislature requires the University of Massachusetts Board of Trustees to enter into a learning contract with all incoming medical students. Students sign these contracts on an annual basis. Under the contract, the tuition rate for the first year for students who entered in September 1989 was as follows:

Total	*Due Immediately*	*Future Obligation*
$6,882	$2,294	$4,588

The learning contract gives students the option of paying full tuition at the time of enrollment, deferring payment of a portion of tuition until after residency training, or canceling the deferred payment of tuition by fulfilling a one-year service obligation to the Commonwealth of Massachusetts. Service in the commonwealth must begin after completion of residency training or after completion of service obligations resulting from government sponsored loan programs. The service in the commonwealth may be fulfilled by the practice of medicine, research, teaching, administration, or other activity consistent with the student's medical education and training and approved by the chancellor or dean of the Medical School. For those students who do not elect to provide service, payment of deferred tuition will be due after completion of residency training and continue for a maximum of 10 years.

Student fees: $490

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	700	0	700
Applicants Interviewed	450	0	450
New Entrants*	100	0	100

*100% took the MCAT and had baccalaureate degrees.

Tufts University School of Medicine

Dr. Henry H. Banks, Dean
Janet C. Cooper, Director of Admissions
Raymond O'Rourke, Director of Financial Aid

Address inquiries to:
Committee on Admissions
Tufts University
School of Medicine
136 Harrison Avenue
Boston, Massachusetts 02111
(617) 956-6571

General Information. Tufts University was founded in 1852 as a liberal arts college in Medford, Massachusetts, and has since grown into a modern university whose School of Medicine was established in Boston in 1893. The medical school is located within a health sciences complex which includes the dental school, veterinary school, Sackler School of Graduate Biomedical Sciences, Sackler Center for Health Communications, Nutrition Center, and the New England Medical Center. The medical school buildings, located in the center of Boston, house the preclinical departments, research laboratories, administrative offices, seminar rooms, lecture rooms, and the library. Close association of the School of Medicine with 30 hospitals affords ample facilities for clinical experience. Rooms and apartments are available close to the school and throughout greater Boston. A Student Health Service provides ambulatory care during the school year. Additional medical care is afforded through the Student Health Insurance Plan.

Curriculum. The initial phase of the curriculum focuses on the biology of cells and their constituent molecules followed by a segment dealing with the structure and development of tissues and organs. This is followed by the functions of the organs and the organism and its environment. The biology of normal cells, tissues, and organs is presented before the students are exposed to the pathological manifestations of these components. The curriculum also includes those aspects of the nonbiological sciences that are relevant to health care delivery and patient care, such as nutrition, health care economics, family medicine, ethics, and history of medicine. The program also emphasizes problem solving and critical, analytical discussion in small groups instead of rote learning based on a large number of lectures. A strong emphasis on the use of problem-based learnng, a teaching based on case studies, is an aspect of the curriculum. The cases chosen have been closely coordinated with the material from the ongoing segments of the curriculum but provide opportunities for student learning in a wide range of areas, including ethics, socioeconomics, history, culture, and the physician-patient relationship. The Preclinical Elective Program is designed to encourage students to pursue outside interests and talents as well as to foster meaningful faculty-student relationships. Students can explore opportunities in basic science, clinical medicine, or community aspects of medicine. In addition, faculty are able to work more closely with students and to serve as role models, mentors, and informal advisers.

The third year consists of rotations through the major clinical specialties and rotations in rehabilitative medicine, neurology, ophthalmology, and radiation oncology.

The fourth year consists of a minimum of eight four-week rotations. Five of these eight must be taken at Tufts-affiliated hospitals, and at least two of the five must be designated as ward service rotations. Beyond these requirements, students are free to schedule approved learning experiences as part of their elective rotations at the Tufts-associated hospitals or elsewhere in the United States or abroad.

The Curriculum Committee's planning for the clinical portion of the program is underway, and it is expected that modifications to the curriculum will continue for several years.

Requirements for Entrance. The MCAT and a minimum of three years of college are required. Preference is given to applicants who will receive a bachelor's degree before matriculation. College credits must include:

	Years
Biology (with lab)	1
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
Physics (with lab)	1
English	

Facility in the use of speech and composition is required.

A course in classical genetics is recommended.

Since a physician should have a broad cultural background, concentration in biology, physics, and chemistry is not required. College courses in the humanities and social sciences as well as in mathematics, advanced chemistry, and advanced physics are of greater value than courses that attempt to anticipate material that will be covered in medical school. However, a background that includes supportive or preparatory courses in biochemistry and genetics is helpful. The applicant should have some experience with quantitative techniques. Course work in calculus, statistics, and computer science is encouraged.

Selection Factors. Students are selected based on a constellation of factors, including personality, motivation, experience, and intellect as well as success in their undergraduate work. Tufts University has a strong commitment to affirmative action for members of minority groups and for students with handicaps. Within its financial resources, Tufts is seeking a student body that more adequately reflects the proportion of minority and handicapped persons in the general population. In addition, the university is committed to doing as much as it can to provide an atmosphere of nondiscrimination for members of minority groups and to provide an accessible campus and support services for handicapped persons. Should an interview be desired, the applicant will be notified.

Few students with GPAs below 3.0 are admitted. Deferred acceptances are offered upon request.

Financial Aid. Limited scholarship and loan assistance is available for students who qualify on the basis of need and who are citizens or permanent residents of the United States. Approximately 33 percent of the students receive financial aid from the school at some time during their four years of study.

There are no rules prohibiting outside employment; however, first- and second-year students are urged not to seek outside work. Some opportunities for part-time employment are available in the various hospitals and in the medical school.

In situations of extreme financial need the $55 application fee may be waived if AMCAS has first granted a similar waiver.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $55
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 155 (6 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $21,900

Student fees: $953

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	*	*	4,691
Applicants Interviewed	*	*	817
New Entrants*	36	122	158

*Data not available.
†100% took the MCAT and had baccalaureate degrees.

Michigan State University
College of Human Medicine

Dr. William S. Abbett, Acting Dean
Patricia C. Butch, Director of Admissions
Dr. Wanda D. Lipscomb, Director of Prematricular Programs

Address inquiries to:
College of Human Medicine
Office of Admissions
A-239 Life Sciences
Michigan State University
East Lansing, Michigan 48824-1317
(517) 353-9620

General Information. The College of Human Medicine is a four-year medical school of comparatively small size with the resources of one of the nation's largest universities at its disposal. It was established by the state of Michigan to produce more practicing physicians and to develop and implement programs in medical education and research.

Curriculum. The curriculum is divided into three phases integrating the basic biological and behavioral sciences with clinical training and problem-solving skills, and a phase in which the student concentrates primarily on clinical training.

Phase I is a one-term experience in which the student becomes oriented to the medical process. The goal is to impart to students the notion of drawing upon a variety of disciplines essential to the solution of patient problems. Inteviewing skills and work with live anatomical models are stressed in this phase along with an introductory course in medical biology.

To meet the needs of individuals with different learning styles, Phase II is offered in two tracks, one of which is primarily lecture and laboratory in basic science courses, and the other a small-group, problem-solving track which continues the approach initiated in Phase I.

Phase III can normally be completed within six or seven terms and is spent in one of six communities associated with the college. Students live in the community during their required clinical clerkships but have the option of completing electives in other locations. Community physicians work closely with community-based members of the college to provide a unique learning environment.

Requirements for Entrance. The MCAT and three years of college are required. The majority of accepted students will have a B.A. or B.S. degree. Nearly one-fourth of the 1989 entering class held a graduate degree.

A specific academic major is not a critical factor for admission; a solid background in the arts, humanities, or social sciences will be of as much value to the future doctor as strong preparation in the biosciences.

Specific course requirements are:

	Sem./Qtr. hrs.
Biological sciences (with lab) Lab must be 3 semester or 5 term credits.	6/9
Inorganic and organic chemistry (with lab) Lab must be 3 semester or 5 term credits.	8/12
Physics (with lab)	6/9
English composition and literature	6/9
Behavioral/social sciences including psychology and/or sociology	6/9
Nonscience areas May include English and social sciences requirements.	18/27

Selection Factors. All application materials are reviewed prior to an initial decision. Applicants are required to submit an autobiographical statement specifying their reasons for wishing to be a physician as well as their reasons for selecting Michigan State University (MSU). Because MSU is a state-assisted institution, enrollment of nonresidents is limited. No more than 20 percent of the entering class is from outside the state of Michigan.

The college seeks to admit a class that is not only academically competent but also representative of a wide spectrum of personalities, backgrounds, talents, and motivations. Students who have the desire and aptitude to become physicians but who have experienced unequal educational opportunities because of social, cultural, or racial reasons are especially encouraged to apply.

From the more than 1,600 applicants reviewed by the Committee on Admissions, approximately 400 applicants are invited to East Lansing for interviews with faculty and medical students. Selection is based on many factors, including the GPA, both year to year and cumulative; MCAT scores; autobiographical statement; relevant work experience in health-related and other occupations or positions; interviewers' assessments of motivation, ability to communicate, problem-solving ability, maturity, and suitability for the MSU program; state of residence; and potential to contribute to the overall qualities of the entering class.

In addition to selecting students for the main campus program, the Committee on Admissions admits six students to the Upper Peninsula (UP) Medical Education Program. The UP Program is an innovative project of the College of Human Medicine established to meet the special health care needs of patients in remote, medically underserved rural areas of Michigan. Besides providing health services to an underserved population and directly confronting physician maldistribution, the UP Program trains physicians committed to primary care. The program's uniqueness lies in the fact that it exists as a segment of both a college/university and a community health structure. Applicants passing an initial screening will have the opportunity to be considered for the UP Program. Further information is available from the Office of Admissions.

Financial Aid. Information about specific scholarships and about financial aid can be obtained from the Office of Financial Aids, 259 Students Services Building. Acceptance to the class is not based on the individual's ability to pay. However, financial aid is limited, and the responsibility for adequate funding must rest with the student.

MSU provides limited financial aid for students who show strong desire and aptitude for becoming physicians but who have previously been denied equal education opportunities for social, cultural, or racial reasons.

Information for Minorities. Although the college does not have a separate review for minority applicants, minority and other nontraditional students have been very competitive, and the college has a substantial enrollment of such students. The 1989 entering class had a minority enrollment of approximately 14 percent black, Mexican American, mainland Puerto Rican, and Native American Indian students. The College of Human Medicine offers the Summer Orientation and Retention (SOAR) Program, which includes an introduction to the basic science curriculum and study skills development seminars. The college also offers a postbaccalaureate program, Advanced Baccalaureate Learning Experience (ABLE), for a few selected students. Questions about the SOAR and ABLE programs should be addressed to Dr. Wanda D. Lipscomb, director of prematricular programs. Questions about services afforded to minority students should be addressed to Ms. Patricia C. Butch, director of admissions.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee: None
Oldest MCAT scores considered: April 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $50, due with response to acceptance offer
Deposit refundable prior to: April 15, 1991
Estimated number of new entrants: 106
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees:
  Resident: $7,823
  Nonresident: $16,823

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	648	1,035	1,683
Applicants Interviewed	251	118	369
New Entrants*	85	19	104

*100% took the MCAT; 99% had baccalaureate degrees.

University of Michigan Medical School

Dr. Joseph E. Johnson III, Dean
Dr. Theodore Z. Polley, Assistant Dean and Chairman, Admissions Committee
Diane Samples, Director of Financial Aid

Address inquiries to:
Admissions Office
M4303 Medical Science Building I
University of Michigan Medical School
1301 Catherine Road
Ann Arbor, Michigan 48109-0624
(313) 764-6317

General Information. The University of Michigan was founded in 1817, and the first class of medical students matriculated in 1850. Since 1866 the entering classes have been among the largest in the United States. This is a reflection of the extensive resources offered by the school. In 1869 the regents provided the faculty of medicine with a hospital to serve the school's clinical programs. The medical center has approximately 1,000 hospital beds and extensive research facilities. In addition to the medical students, more than 600 house officers are appointed to training programs under the auspices of the medical faculty.

Curriculum. The curriculum is designed to provide the medical science and clinical background necessary for all physicians. In addition, the individuality of each student's education is recognized. Research opportunities exist for all interested students. The fourth year is elective; students select, with faculty advice, programs consonant with their specific career goals. During the clinical years, students may be required to accept assignments to hospitals affiliated with the Medical School but located outside Ann Arbor. Opportunities exist to pursue a combined M.D.-Ph.D. curriculum, either as a fellow in the Medical Scientist Training Program (MSTP) or as a graduate student in one of the basic science departments.

Forty-four highly qualified high school graduates who have been accepted by the University of Michigan College of Literature, Science, and the Arts will be admitted to the seven-year Integrated Premedical-Medical Program leading to both a liberal education and the medical degree.

Requirements for Entrance. The MCAT and a minimum of 90 semester hours of university work are required. The specific course requirements are:

	Sem. hrs.
Biology	6
General/inorganic and organic chemistry	8
Physics	6
English composition and literature	6
Nonscience/humanities	18

Selection Factors. The Admissions Committee has the responsibility to select from each year's applicants those whose talents, skills, interests, and personal fitness indicate they will succeed in the study and practice of medicine. As part of a state university, the Medical School gives strong preference to applicants who are residents of Michigan.

The Admissions Committee considers that all information pertaining to the ability, personality, and character of the applicant is relevant. Women are admitted on the same basis as men. Scores on the MCAT are given serious attention. Most accepted applicants have at least a B+ undergraduate average. The mean undergraduate GPA for students admitted in 1989 was 3.45. Reports from college instructors, especially those who have had considerable experience in evaluating premedical students, are important. While only three years of undergraduate work are required, the Admissions Committee gives preference to applicants who will have completed four years by the time of matriculation.

An interview is offered to each student the Admissions Committee wishes to consider seriously after the original screening of credentials. The interview is usually held in Ann Arbor. All students are considered on the basis of individual qualifications.

The committee is unable to accept applications from students who have not had at least one year, and preferably two years, of their premedical training at an accredited U.S. or Canadian college. Foreign nationals must have a permanent resident visa in the United States.

Any applicant who has been enrolled previously in a medical school in a program leading to the M.D. degree must be in good standing and eligible for reentry to that school in order to be considered for admission to the University of Michigan Medical School.

The Medical School participates in the Early Decision Program. To be eligible for consideration an applicant must be well qualified, and all supporting materials must be received in the Admissions Office by September 1.

In accordance with an administrative regulation issued November 15, 1966, Social Security numbers will be used for identification purposes in university records (use is mandatory).

Financial Aid. Application for financial aid may be initiated following acceptance to the Medical School. Loan funds and some scholarships are available to assist registered students with tuition expense and a share of their living expenses. It is the goal of the Financial Aid Committee that no students should be required to interrupt their education solely for financial reasons.

Information for Minorities. Applications from members of the ethnic minority groups which are underrepresented in medicine are encouraged. An Opportunity Award Program authorized by the regents of the university provides a degree of financial support for economically disadvantaged students.

The Health Careers Opportunity Program, called AIMED, is funded by the federal Division of Disadvantaged Assistance, the University of Michigan, and the Medical School. AIMED has three main components. The Post-Baccalaureate Program is a two-semester curriculum designed to improve the qualifications of students who are motivated to become physicians but who are disadvantaged by background and prior inadequate educational opportunity and achievement. This phase of the program considers selected unsuccessful applicants to the University of Michigan Medical School and other medical schools. The Pre-Matriculation Program and the Retention Program are for enrolled students at the University of Michigan Medical School from underrepresented ethic, rural, and/or financially disadvantaged backgrounds. Further information is available from: Office of Student and Minority Affairs, 2719 Furstenberg Center-Box 025, University of Michigan Medical School, 1301 Catherine Road, Ann Arbor, Michigan 48109-0010; the telephone number is (313) 764-8185.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $10
School application fee after screening: $40
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: Flexible
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 1, 1991
Estimated number of new entrants: 167 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $9,956
  Nonresident: $18,766

Student fees: $136

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	613	2,390	3,003
Applicants Interviewed	318	263	581
New Entrants*	116	51	167

*100% took the MCAT; 98.8% had baccalaureate degrees.

Wayne State University School of Medicine

Dr. Robert J. Sokol, Dean
Dr. Charles C. Vincent, Assistant Dean for Admissions
Matilda S. Graff, Financial Aid Counselor

Address inquiries to:
Director of Admissions
Wayne State University
School of Medicine
540 East Canfield
Detroit, Michigan 48201
(313) 577-1466

General Information. The School of Medicine, which originated in 1868, is the oldest component of Wayne State University. It is located in the 236-acre Detroit Medical Center. This center is presently composed of a basic science building (Scott Hall) containing modern teaching facilities for the first two years of medical school; the Shiffman Medical Library; the Lande Medical Research Building; the Elliman Clinical Research Building; C. S. Mott Building; Harper-Grace, Hutzel, and Children's hospitals; Detroit Receiving Hospital and University Health Center (an ambulatory care facility); and the Rehabilitation Institute. The Detroit Medical Center hospitals, the Allen Park Veterans Administration Hospital, and Lafayette Clinic (a psychiatric research and treatment facility) are the major clinical teaching and treatment units of the school. In addition, the medical school is affiliated with Sinai, Saint John, William Beaumont, Oakwood, Providence, Saint Joseph Mercy, and Mt. Carmel hospitals.

Curriculum. The curriculum is divided into four academic periods which are in sequence 9, 10, 12, and 8 months in duration. The major subjects for these respective periods are normal human biology, pathology, pharmacology, and introduction to clinical medicine, clerkships, and medical electives. Year I is primarily disciplinary, and Year II is initially disciplinary progressing to an organ systems approach. Year III focuses on clinical clerkships. The elective period, senior year, allows students an opportunity to define a major portion of their own academic program within a general structure under the guidance of faculty advisors.

A wide range of opportunities are offered for students to engage in research, basic and clinical, as well as graduate degree programs (M.S. and Ph.D.) in combination with an M.D. program.

Requirements for Entrance. The MCAT is required in addition to a baccalaureate degree or its equivalent; however, the Committee on Admissions is prepared to review the records of third-year students with unusual academic attainment. The MCAT should be taken during the year of application, preferably in the spring. Recommended courses for medical school and MCAT preparation are:

	Sem. hrs.
General biology or zoology (with lab)	12
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
English	8

Besides a strong preparation in the basic sciences, a broad educational background in a liberal arts-oriented program is desirable. Applicants are encouraged to select subjects that will contribute substantially to a broad cultural background.

Selection Factors. The Committee on Admissions will select those applicants who, in its judgment, will make the best students and physicians. Consideration is given to the entire record, MCAT scores, college recommendations, and interview results as these reflect the applicant's personality, maturity, character, and suitability for medicine. The mean GPA for students admitted in 1989 was 3.35. Special consideration is given to candidates from areas where there is a shortage of physicians.

As a state-supported school, the institution must give preference to Michigan residents; however, out-of-state applicants are encouraged to apply. An applicant's residency is determined by university regulations. Students whose educational backgrounds include work outside the United States must have completed two years of course work at a U.S. or Canadian college. Applicants must hold U.S. permanent resident or citizenship status. Interviews are required but only scheduled with those applicants who are given serious consideration.

It is the intent of the Committee on Admissions to make final selections by March 1; therefore, students are urged to apply by November 1.

Financial Aid. Scholarships, loans, and grants are awarded on the basis of academic performance, financial need, and available funding. Eligible students may borrow up to $7,500 per year from the federally insured Stafford Student Loan Program (formerly the Guaranteed Student Loan Program) through banks or the Michigan Higher Education Assistance Authority. Although the primary responsibility for financing a medical education rests with the student and the student's family, the School of Medicine will assist students with unmet need as funds are available. Short-term loans may be made for emergency purposes after registration.

Financial aid awards administered by the School of Medicine are made by the financial aid officer based on federal guidelines and those established by the Committee on Financial Aid and Scholarships, which includes student representation.

The College Work-Study Program and other medically oriented jobs are generally available to eligible students for the summer break.

Accepted students are mailed applications and updated financial aid information in February preceding matriculation. Additional information is available from the financial aid officer. Financial aid seminars are held for incoming students and their families. Financial aid appointments and information are available by calling (313) 577-1039.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee after screening: $25
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 1, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $50, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 256 (15 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $6,842
  Nonresident: $13,632
Student fees: $300 ($100 in years III and IV)

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	757	901	1,658
Applicants Interviewed	343	101	444
New Entrants*	223	35	258

*100% took the MCAT; 99% had baccalaureate degrees.

Mayo Medical School

Dr. Franklyn G. Knox, Dean
Dr. Gerald C. Peterson, Associate Dean for Student Affairs
Robert W. Giere, Administrative Assistant for Admissions and Records

Address inquiries to:
Admissions Committee
Mayo Medical School
200 First Street, S.W.
Rochester, Minnesota 55905
(507) 284-3671

General Information. The opening of Mayo Medical School in 1972 continued Mayo's educational programs which began in the early 1900s. These programs were first formalized in 1914 when what is now the Mayo Graduate School of Medicine was established.

Mayo Medical School is a component of Mayo Foundation. It receives support from the state of Minnesota for students who are state residents.

Resources of Mayo Medical School include: 280,000 Mayo Clinic patient registrations per year, two affiliated hospitals with facilities for clinical research, primary care facilities including two rural health centers, and affiliations with physicians who practice in surrounding communities. The faculty is drawn from the clinical and scientific staff of Mayo Clinic and augmented by area family physicians, pediatricians, and internists.

Curriculum. The first-year curriculum (11 months) provides for integrated study of the several basic and clinical sciences. The curriculum is organized around the organ systems (for example, cardiovascular system, respiratory system, and endocrine system) and basic sciences. Study of an individual patient's illness is introduced when such an approach affords opportunity to apply basic pathophysiological concepts. The student begins to learn skills in interviewing and examining patients.

The second year is devoted to introductory clerkships in medicine, pediatrics, psychiatry, and obstetrics-gynecology; seminars; courses; and clinical experience in medical specialities.

The third and fourth years are designed to permit the student to develop an academic major in a clinical and/or scientific discipline. During half of the junior year the student pursues a major research project or a major in advanced anatomy or applied pathology. About 175 Mayo scientists in 37 disciplines offer research experiences in which students are eligible to participate. In the other half of the junior year, students refine clinical skills on a one-to-one basis with Mayo Clinic physicians in the hospital and outpatient setting through clerkships in medicine, surgery, obstetrics-gynecology, pediatrics, and neurology. The fourth year consists primarily of elective hospital-based clerkships.

A combined program leading to the M.D. degree and Ph.D. in biomedical science degree is available for up to six students each year. Stipend support and tuition waiver are included in this six-year program.

Numerous educational experiences available primarily to residents and graduate students are also open to medical students. The teaching of ethical concepts is integrated into the curriculum as is the study of medical economics; in addition, seminars on Human Values in Medicine are held monthly throughout the academic year.

Formal evaluations are recorded as honors/satisfactory/marginal/unsatisfactory, supplemented by narrative comments by faculty.

Requirements for Entrance. The MCAT is required. Owing to the nature of the application process, students who take this test in the spring of the year in which they are applying have an advantage over those who wait until the fall. A baccalaureate degree is required. No one major field is preferred over another.

College work must include:

	Years
Biology and/or zoology	1
Chemistry (with lab) Must include organic chemistry.	2
Physics (with lab)	1

A biochemistry course or a working knowledge of basic biochemical concepts is also required. A general outline of requisite knowledge in this discipline is available upon request from the Office of Admissions.

Beyond the requirements, Mayo Medical School looks for students with academic excellence whose individual talents differ widely and who have demonstrated interests in the humanities and social sciences. Selection of college courses offers an opportunity for personal choice that the Admissions Committee would not limit or impose upon except as stated above.

Selection Factors. In evaluating candidates, the entire academic record, results of aptitude tests, evaluation by faculty, letters of recommendation, and personal interviews are considered. Evidence of integrity, adaptability, maturity, leadership, and humanitarian concern is sought. Interviews are conducted at Mayo.

Foreign applicants without a permanent resident visa cannot be considered for appointment at this time. Students who have applied unsuccessfully one year should not reapply unless they have significantly improved their applications by higher scores, additional successful study, and/or pertinent employment experience. Transfers from other medical schools are not possible.

Some characteristics of the students accepted for the 1989 entering class were: *mean GPA,* 3.57; *mean MCAT scores,* above 10 in all categories; *sex,* 46 percent women.

Mayo does not discriminate on the basis of race, sex, creed, national origin, age, or handicap in its educational programs or activities in accordance with civil rights legislation.

Financial Aid. Our goal is to provide adequate scholarships, grants, and loans to ensure an opportunity for any student to attend. Awards are based on scholarship, financial need, and available funds. Approximately 90 percent of our students receive financial assistance. A statement of resources and needs (GAPSFAS) allows the financial aid office to determine limits of support. A progressive consolidated loan repayment program supported by the state of Minnesota is available to all graduates. Further information may be obtained by telephoning the financial aid office at (507) 284-4839.

Information for Minorities. Mayo Medical School seeks qualified applicants from minority groups underrepresented in medicine. In instances in which a personal interview would be a financial hardship, funds are available to defray the cost. Tutoring is available to all students.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
Earliest date: June 15, 1990
Latest date: Nov. 15, 1990
School application fee to all applicants: $40
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
EDP application period: June 15-Aug. 1, 1990
EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
Earliest date: Oct. 15, 1990
Latest date: Until class is filled

Applicant's response to acceptance offer
Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 40 (2 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
Resident: $8,150
Nonresident: $16,500

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	259	1,034	1,293
Applicants Interviewed	123	226	349
New Entrants*	21	20	41

*100% took the MCAT and had baccalaureate degrees.

University of Minnesota—Duluth School of Medicine

Dr. Ronald D. Franks, Dean
Dr. Richard J. Ziegler, Assistant Dean for Admissions
Nicholas Whelihan, Director of Financial Aid

Address inquiries to:
Office of Admissions, Room 107
University of Minnesota—Duluth
School of Medicine
10 University Drive
Duluth, Minnesota 55812
(218) 726-8511

General Information. The University of Minnesota—Duluth (UMD) School of Medicine admitted its first class of 24 students in September 1972 to a two-year basic medical and clinical sciences program. After these first two years, students are automatically transferred to the University of Minnesota Medical School at Minneapolis under an established, noncompetitive mechanism for completion of their training.

In March 1979, the school moved into new facilities that consist of classrooms, seminar rooms, teaching and research laboratories, faculty and administrative offices, a student lounge, the Learning Resources Center, and animal facilities. The Health Science Library, designed to support the school's teaching and research activities, was opened in March 1978.

The UMD School of Medicine has established affiliation agreements with the St. Mary's and Miller-Dwan medical centers and St. Luke's Hospital of Duluth. These institutions afford medical students access to health care systems that provide patients from the northern regions of Minnesota, Wisconsin, and Michigan with care for various medical problems.

The full-time teaching faculty consists of 45 basic and clinical science members. The part-time and voluntary clinical sciences faculty includes over 250 area physicians who represent all of the major medical specialties. Their close interactions with the full-time faculty in presenting the curriculum ensures a practical as well as an academic approach toward training physicians.

Curriculum. The two-year curriculum is designed to prepare students for future medical practice through careful and integrated instruction in basic, clinical, and behavioral sciences. Under the guidance of the volunteer clinical faculty, students have early exposure to patients, learning accurate medical history-taking and physical examination skills. Ample time is also devoted to basic science-clinical correlations allowing a student to utilize the basic sciences as they apply to clinical medicine. In addition, each student is paired with a family physician in a required preceptorship arrangement. During the first year, this entails meeting with the preceptor for at least 10 hours per quarter. In the second year, students spend three consecutive days each quarter with their preceptors in small towns throughout Minnesota.

Requirements for Entrance. The MCAT and completion of all requirements for a bachelor's degree must be completed by the time of matriculation. Applicants are strongly urged to take the MCAT in the spring of the year of application and to have their premedical course requirements completed at the time of application. The processing of an application may be delayed if MCAT scores or grades from required courses in process are not included in the original application.

Required courses are:

	Sem./Qtr. hrs.
General biology or zoology (with lab)	8/12
General physics (with lab)	8/12
General/inorganic chemistry (with lab)	8/12
Organic chemistry (with lab)	8/12
English composition	6/9
Humanities At least one course must be upper division level.	8/12
Behavioral sciences At least one course must be upper division level.	8/12
Calculus Must include differentiation and integration.	

Beyond these requirements, applicants are strongly encouraged to broaden their education by taking courses in nonscience areas that will provide intellectual stimulation. Applicants are also encouraged to become exposed to people and their problems and to learn about the medical profession.

Selection Factors. The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to age, race, creed, sex, national origin, veteran's status, sexual preference, or handicap. As a state-supported school, strongest preference for selection is given to legal residents of Minnesota. Strong consideration will also be given to applicants from rural counties of neighboring states.

For each applicant, the Committee on Admissions considers the entire academic record, including trends in performance, scores from the MCAT, and responses to a questionnaire prepared by the committee. If an applicant is selected from this initial screening, the individual is then invited to the Duluth campus for interviews by two full-time committee members. During this visit, the candidate can elect to meet medical students at a free luncheon. Letters of evaluation are requested of all interviewed applicants.

The committee prefers candidates who have an academic record which indicates they are capable of handling the rigors of a medical education. In keeping with the mandated goals set by the Minnesota legislature at the school's inception, the committee is seeking persons with personal and background traits which indicate a high potential for becoming a family physician in a small town or rural setting. There is no prejudice for or against the reapplicant. If possible, reapplicants are encouraged to identify any liabilities and rectify them before reapplying through AMCAS. Individuals who are not accepted have the opportunity to review the application with the admissions officer to try to pinpoint the reasons(s) for the action. Admissions requests for advanced standing cannot be considered because of the nature of the curriculum.

The following information pertains to the 1989 entering class: *overall acceptance rate,* 80 acceptances offered to obtain a class of 48 students; *mean GPA,* 3.43 (range 2.19-4.00); *MCAT scores, mean and range, B*-9.2 (6-12), *C*-8.7 (5-12), *P*-8.7 (6-13), *SP*-8.9 (6-12), *SA:R*-8.1 (5-12), *SA:Q*-8.3 (6-11); *sex,* 22 women; *residence,* 99 percent from Minnesota; *undergraduate major,* 70 percent in biology or chemistry, with the remainder from a variety of fields.

Financial Aid. Financial aid is based on the demonstrated need of the student. A number of loans are available through the University Financial Aid Program, and there is limited scholarship aid. To date, no one who has been accepted has discontinued medical studies because of financial need. About 93 percent of the students are eligible for and receive financial assistance.

Information for Minorities. The school accepts the principles of affirmative action, recognizing the need for providing minority group members with the opportunity to study medicine. It is committed to providing this opportunity, particularly to American Indians, evidenced in part by the establishment of its Center for American Indian and Minority Health.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee: None
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 48 (3 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $7,506
  Nonresident: $15,015

Student fees: $334

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	262	99	361
Applicants Interviewed	156	1	157
New Entrants*	47	1	48

*100% took the MCAT and had baccalaureate degrees.

University of Minnesota Medical School—Minneapolis

Dr. David M. Brown, Dean
Dr. Donald W. Robertson, Assistant Dean, Admissions and Student Affairs
Dr. Helene R. Horwitz, Assistant Dean

Address inquiries to:
Office of Admissions and Student Affairs
Box 293-UMHC
University of Minnesota Medical School
420 Delaware Street, S.E.
Minneapolis, Minnesota 55455-0310
(612) 624-1122

General Information. Founded in 1888, the University of Minnesota Medical School—Minneapolis is located on the Minneapolis campus of the University of Minnesota. This proximity to disciplines basic or related to medicine provides unique opportunities for interchange of information, techniques, and personnel. The Medical School is a unit of the University of Minnesota Health Sciences Center and has a close working relationship with other units, including dentistry, nursing, and pharmacy. Most of the major hospitals in the Minneapolis-St. Paul area are affiliated with the Medical School. These, together with the University Hospital, a part of the Health Sciences Center, provide teaching facilities for medical students.

Curriculum. A major feature of the curriculum is a well organized required course sequence in the first and second years and flexibility of the schedule in the third and fourth years. The first-year program is comprised of courses which form a basis for the continued study of medicine: anatomy, biochemistry, physiology, microbiology, and pathology. Relevance of these areas is reinforced through a series of clinical correlations. In the summer, students are introduced to topics in clinical medicine, including genetics and human behavior, and begin to acquire skills in clinical diagnosis. In the second year, pathology and pharmacology provide the framework for continued study of basic sciences, and pathophysiology is emphasized in organ system courses. Clinical skills are broadened through work in clinical medicine, in the primary care fields of medicine, pediatrics, and family practice, and in neurology. The program in the third and fourth years includes four quarters of required externships and experiences, two quarters of electives, and two quarters of free time. Students are encouraged to undertake research and are urged to develop goals and pursue personal and special interests in medical education. A faculty adviser is selected during the second year. The adviser assumes an important role in assisting students in achieving their own special educational goals. Flexibility of scheduling in the third and fourth years provides the opportunity to pursue a combined-degree program.

A seven-year M.D.-Ph.D. program is offered to combine the breadth of medical education with the depth of a rigorous graduate research program for superior students seeking a career in academic medicine.

Requirements for Entrance. The MCAT and a bachelor's degree from an approved college or university are required. Applicants are urged to take the MCAT in the spring of the year of application and to complete all of the required science courses before taking the MCAT or making application.

Required courses are:

	Quarters
General biology or zoology (with lab)	2
General or inorganic chemistry (with lab)	2
Organic chemistry (with lab)	2
General physics (with lab)	3
English	3
Behavioral sciences, social sciences, or other liberal arts courses	(27 qtr. hrs.)
Calculus	

Course work in biochemistry, genetics, psychology, and liberal arts subjects is strongly recommended.

Selection Factors. Although scholastic aptitude is necessary in order to complete studies in medical school, neither high grades nor high MCAT scores alone or in combination are adequate to obtain admission. The Admissions Committee is looking for candidates who demonstrate the greatest promise of becoming competent physicians. Evidence of personal integrity, maturity, creativity, motivation for medicine, the ability to work cooperatively with others, and a sense of dedication in service to others are factors which will be evaluated by the committee. These qualities and attitudes will be evaluated by several means, including letters of evaluation, the scope and nature of extracurricular activities, the breadth of undergraduate education, and personal interviews. The committee will look at all aspects of the applicant's entire academic record, including trends in the scholastic performance.

Although preference is given to legal residents of the state of Minnesota, applicants from other states are encouraged to apply, especially if they have a high level of scholastic aptitude and have shown industriousness, creativity, and an interest in research. The school does not discriminate on the basis of race, sex, creed, disability, nor national origin.

Applicants not accepted in two successive years are rarely accepted on future applications unless there have been major improvements in both their academic and nonacademic credentials.

Accepted students for the 1989 entering class had the following statistics: *mean GPA,* 3.44; *sex,* 46 percent women; *residence,* 78 percent from Minnesota; *overall acceptance rate,* 31 percent, 323 acceptances out of 1,409 applicants to obtain a class of 179 freshmen.

Interviews are required before any applicant is accepted, and the Admissions Committee will notify applicants if an appointment is to be made for an interview.

All applications must be submitted through AMCAS, and students are urged to submit their application to AMCAS as soon as possible after completing their last quarter or semester of work following their third year of college. Early Decision Program applications from academically qualified students are encouraged.

Transfer students are accepted into the third year only and usually only from the two-year medical school at the University of Minnesota—Duluth.

An advanced admission program accepts a limited number of highly academically qualified students after their second year of college to enter the Medical School after completion of the bachelor's degree. Information is available from the Medical School.

Financial Aid. Some long-term loans are available to students with demonstrable financial need. The Minnesota Medical Foundation will assist students whenever possible in applying for other long-term loans and scholarships not specifically sponsored by the University of Minnesota or the state of Minnesota. Neither loan nor scholarship applications can be processed until acceptance is obtained.

Information for Minorities. The school is committed to the recruitment, enrollment, and education of minority groups underrepresented in medicine.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee: None
Oldest MCAT scores considered: 1986
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: May 15, 1991
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 175 (20 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition (3 academic quarters)
  Resident: $7,508
  Nonresident: $15,015
Student fees: $446

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	407	1,002	1,409
Applicants Interviewed	*	*	488
New Entrants†	139	40	179

*Data not available.

†100% took the MCAT and had baccalaureate degrees.

University of Mississippi School of Medicine

Dr. Norman C. Nelson, Dean
Dr. M. Don Turner, Chairman, Admissions Committee
Dr. Billy M. Bishop, Director, Student Services and Records

Address inquiries to:
Chairman, Admissions Committee
University of Mississippi
School of Medicine
2500 North State Street
Jackson, Mississippi 39216-4505
(601) 984-5010

General Information. The School of Medicine, created by a special act of the Board of Trustees in June 1903, operated as a two- year school in Oxford until 1955, when it expanded to four years and moved to the University of Mississippi Medical Center in Jackson. The Medical Center complex includes the School of Medicine, School of Nursing, School of Health Related Professions, School of Dentistry, Graduate Programs in the Medical Sciences, and the 593-bed University Hospital. Newest campus facilities are the Verner S. Holmes Learning Resource Center, which houses the Rowland Medical Library and the Division of Learning Resources, and an $18-million acute services addition to the teaching hospital. Clinical instruction is also carried out in the Veterans Administration Hospital, Mississippi State Hospital, and McBryde Rehabilitation Center for the Blind.

Curriculum. In the first year, the courses in anatomy, biochemistry, physiology, and psychiatry/behavioral science are reinforced with a program of clinical correlation which introduces the student to presentation of patients and clinical concepts. The second-year student has courses in biostatistics, epidemiology, genetics, microbiology, parasitology, pathology, pharmacology, and psychiatry/behavioral science. During the last six weeks of the sophomore year, students are enrolled in the conjoint course Introduction to Clinical Medicine. The third-year students rotate through family medicine, obstetrics/gynecology, pediatrics, psychiatry, medicine, and surgery for clinical instruction in these areas. The fourth year consists of a minimum of nine clinical clerkships (blocks), each one calendar month in length. Required blocks include neurosciences, general internal medicine, and a surgical subspecialty. Senior students are required additionally to take one block in at least two of the following departments: surgery, obstetrics/gynecology, or pediatrics.

Requirements for Entrance. The MCAT and three years of college are required. Each applicant must have a minimum of 90 semester hours from an accredited college, excluding physical education, military training, and certain professional courses. However, preference is given to applicants who will have completed all requirements for a baccalaureate degree prior to matriculation.

The required courses are:

	Sem./Qtr. hrs.
General biology or zoology (with lab)	8/12
Inorganic or general chemistry (with lab)	8/12
Organic chemistry (with lab)	8/12
General physics (with lab)	8/12
Advanced science	8/12
Mathematics	6/9
A minimum of one semester each of college algebra and trigonometry is required.	
English	6/9

Science courses for nonscience majors or survey courses are not acceptable for fulfilling the science requirements. Eight semester hours of advanced science must be taken in a senior college.

Students who qualify by placement tests for a more advanced course in mathematics are urged to take six semester hours of advanced courses rather than algebra and trigonometry.

The student is advised to develop proficiency in a specific area and acquire a background in the humanities and behavioral sciences in undergraduate school.

Selection Factors. Selection of applicants is made on a competitive basis without regard to age, sex, race, creed, national origin, marital status, handicap, or veteran status. The Admissions Committee selects students who are best qualified on the basis of a demonstration of scholastic aptitude and personal achievement with due consideration of other factors. Major considerations are academic performance, MCAT results, motivation for medicine, and such personal characteristics as maturity, integrity, and stability. Additional factors are the recommendation of the premedical advisers or committee and impression on personal interview. Strong preference is given to residents of Mississippi. Interviews are arranged at the discretion of the Admissions Committee.

The mean GPA for the 1989 entering class was 3.6.

Financial Aid. Accepted students may apply for financial aid. The school participates in federal scholarship programs and federal loan programs, such as Health Professions Student Loan Program, Perkins Loan Program, and Stafford Student Loan Program (formerly the Guaranteed Student Loan Program). Eligible students may also apply for limited scholarship funds provided by private donors. Additional financial aid is available through the American Medical Association Education and Research Foundation loan program and the Mississippi State Medical Education Scholarship Loan Program, which was established by the state legislature. In the latter program, Mississippi resident medical students who contract to practice in Mississippi may borrow up to $6,000 per school year or $24,000 in four years. Minority students are assisted by the National Medical Fellowship, Inc., program. A limited number of prizes and scholarships are awarded to outstanding students. Four Dean's Scholarships, renewable annually, are awarded each year to the freshmen with the highest academic achievement at the end of the first year. Although the study of medicine is considered a full-time occupation, students who maintain satisfactory academic standing may apply for part-time jobs in the Medical Center.

Information for Minorities. The Admissions Committee recognizes the serious need for minority physicians and encourages minority students to apply for admission. Further information on the various aspects of the minority program may be obtained by writing to the coordinator, minority student affairs.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee: None
Oldest MCAT scores considered: 1985
Does have Early Decision Program (EDP)
  For Mississippi residents only
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 15 days
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $50 for residents, $100 for nonresidents; due with response to acceptance offer
Deposit refundable prior to: June 15, 1991
Estimated number of new entrants: 100 (15 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $6,000
  Nonresident: $12,000

Student fees: $115

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	209	153	362
Applicants Interviewed	181	0	181
New Entrants*	100	0	100

*100% took the MCAT and had baccalaureate degrees.

University of Missouri—Columbia School of Medicine

Dr. Lester R. Bryant, Dean
Dr. Ted Groshong, Associate Dean for Student Affairs
Sandra J. McCurdy, Director of Admissions and Records

Address inquiries to:
Office of Admissions
MA202 Medical Sciences Building
University of Missouri—Columbia
School of Medicine
One Hospital Drive
Columbia, Missouri 65212
(314) 882-2923

General Information. The University of Missouri—Columbia School of Medicine was established in 1872 as a two-year medical school. In 1956 the curriculum was expanded to its present four-year program. Located on the Columbia campus of the University of Missouri, the Health Sciences Center complex includes the University Hospital, Mid-Missouri Mental Health Center, Harry S. Truman Veterans Administration Hospital, Medical Sciences Building, J. Otto Lottes Health Sciences Library, Howard A. Rusk Rehabilitation Center, Mason Institute of Ophthalmology, and Cosmopolitan International Diabetes Center. Students have a total of 1,000 hospital beds available for patient care. Outpatient clinics include the University Clinics and the off-site Green Meadows Clinics. The School of Medicine also maintains affiliations with various other health institutions across the state.

Curriculum. The medical curriculum includes course work in the basic, the behavioral, and the clinical sciences. The first two years of the four-year curriculum provide a strong background in the basic sciences and instruction in interviewing skills, physical diagnosis, and psychosocial aspects of health and illness. The two clinical years include rotations through the major clinical clerkships and 11 months of elective and free time.

Students may be offered the option of a five-year individualized program.

Graduate programs and combined-degree programs are available in anatomy, biochemistry, community health, health services management, medical sociology, microbiology, nutrition, pathology, pharmacology, and physiology. Combined-degree programs utilize the flexibility of the medical curriculum to enable a student to complete a master's or doctoral degree. The M.D.-Ph.D. Program requires an average of six years.

The School of Medicine uses a five-level grading system, supplemented by narrative commentary from faculty.

Requirements for Entrance. A matriculant must have at least 90 semester hours (exclusive of physical education and military science) from a recognized college or university, including the following course work:

	Sem. hrs.
English composition	6
At least one course beyond the freshman level.	
College algebra	5
Or exemptions resulting in at least calculus eligibility.	
Biological sciences	8
Two semesters of general biology (with lab)	
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8

Because medical training requires a rigorous background in the sciences, introductory survey courses for nonscience majors may not be used to meet science requirements.

A broad-based education in the humanities and social sciences, including communication and language skills, is useful for the successful completion of medical school and in the practice of medicine.

Selection Factors. The Committee on Admissions is composed of faculty members, community physicians, and medical students. Selection preference will be given to Missouri residents; a limited number of positions are available for nonresidents. Based on the AMCAS application and letters of recommendation, approximately 70 percent of the Missouri resident applicants are interviewed. Personal interviews are required for admission. Both academic qualifications and nonacademic attributes are important in the selection process. The Committee on Admissions seeks to assess such attributes as motivation, maturity, and leadership ability. Demographic factors may be considered. The entering class typically shows a wide range of undergraduate fields of concentration.

Successful applicants for the 1989 entering class had the following credentials: *mean* *science GPA,* 3.2; *mean GPA,* 3.34; *undergraduate major,* 67 percent in sciences; *sex,* 35 percent women; *minorities,* 8 percent; *Early Decision Program acceptance,* 2 percent; *overall acceptance rate,* 175 acceptances were offered to obtain a class of 108.

The School of Medicine is making a strong commitment to the recruitment of Early Decision Program (EDP) applicants. Eligibility requirements for the EDP are 3.25 in the last 60 hours of course work completed and no MCAT score less than 8. Both residents and nonresidents may apply through the EDP.

The School of Medicine does not discriminate on the basis of race, sex, creed, national origin, age, handicap, religion, or status as a Vietnam-era veteran in the admission or access to or treatment or employment in its programs and activities.

Financial Aid. The School of Medicine has a financial aid program to supplement the various federal loan programs. Approximately 85 percent of the student body receive aid from this program. The applicant's financial status plays no part in the admissions process.

Information for Minorities. The University of Missouri is committed to the recruitment and education of minority, disadvantaged, and nontraditional applicants. The School of Medicine annually sponsors two summer programs for minority high school students and for minority undergraduate students interested in health care professions.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee: None
Oldest MCAT scores considered: 1977
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 110 (15 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Resident: $6,647
  Nonresident: $10,437

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	227	388	615
Applicants Interviewed	159	42	201
New Entrants*	92	16	108

*100% took the MCAT; 98% had baccalaureate degrees.

University of Missouri—Kansas City School of Medicine

Dr. James J. Mongan, Dean
Wilson Berry, Acting Director of Admissions and Registrar
Dr. Buford Baber, Director of Student Financial Aid

Address inquiries to:
University Admissions Office
University of Missouri—Kansas City
4825 Troost
Kansas City, Missouri 64110
(816) 276-1111

General Information. The Board of Curators of the University of Missouri authorized the establishment of a medical school at the University of Missouri—Kansas City in 1969. Located on a 135-acre Hospital Hill campus, the medical school is near both the schools and colleges of the university and affiliated community hospitals.

Curriculum. The School of Medicine, in combination with the College of Arts and Sciences and the School of Basic Life Sciences, offers a year-round program over six calendar years leading to baccalaureate and M.D. degrees. The student is required to complete both degrees and has the freedom to major in any department of the College of Arts and Sciences.

The program is designed primarily for high school seniors who are entering college. They are permitted to obtain 30 semester hours of credit through the advanced placement program or the CLEP subject area examinations. To receive the baccalaureate degree, the student must complete 120 semester hours of credit by attending classes 48 weeks each year.

The fundamental objective of the program is to provide students with a comprehensive liberal arts education and to prepare physicians who are committed to providing comprehensive health care.

Under the guidance of a clinician-scholar, called a docent, small groups of first-year students are introduced to medicine in several community hospitals where they can observe patients and their problems.

During the first two years of the program, the student is occupied predominantly with arts and sciences course work, with about one-fourth of the time being devoted to introduction to medicine courses. After these two years the student advances, with the approval of the Council on Evaluation, to Year 3 of the six-year program.

During the last four years of the curriculum the student, with guidance from a docent and education assistant, plans a program for meeting the curriculum requirements. Two months of each year are spent with the docent unit on an inpatient internal medicine rotation. The remaining eight or nine months are spent in a number of other required and elective course offerings in both the basic and clinical sciences. Students spend one academic term in arts and sciences course work during three of the last four years of the program.

Basic, clinical, and behavioral science information is presented and emphasized throughout the six-year program. Thus, each student is expected to acquire a firm and broad base of information in each of these major content areas.

The academic program provides the medical student with a realistic working knowledge of community health problems and resources. The school provides an environment for learning medicine which is enhanced by the strong student support system.

Requirements for Entrance. Applicants for admission to Year 1 of the six-year baccalaureate-medical program must meet the admission requirements of both the College of Arts and Sciences and the School of Medicine. Applicants must graduate from an accredited high school and demonstrate the ability to perform successfully at the college level, based on a combination of high school rank and scores on the American College Test (ACT).

An applicant's high school curriculum must include a minimum of eight semesters of English including four semesters of writing, six semesters of mathematics, four semesters of science including two semesters of a laboratory science, and six additional semesters of work in foreign language, English, mathematics, science or social studies. Applicants are strongly encouraged to pursue a more extensive and challenging course of study, including work in the humanities.

Only a limited number of positions become available at levels above the first year of the program. Applications to the Year 3 level will be considered only from applicants who have a baccalaureate or advanced degree and are residents of Missouri or adjacent counties of Kansas.

Selection Factors. The criteria for selection are:

1. Applicant's academic potential is judged by quality of high school courses, rank in high school class and scores on the ACT. In the 1989-90 entering class, the average ACT score fell at the 94th percentile, and the average rank in class was at the 95th percentile.

2. Personal qualities evaluated include maturity, leadership, stamina, reliability, motivation for medicine, range of interests, interpersonal skills, compassion, and job experience.

The Council on Selection carefully reviews all applicants to this program. Applicants who appear to be well qualified are invited for interviews at the medical school campus. If invited, the applicant is notified in writing and will be required to be present at the scheduled date and time of the interview.

Students are considered on the basis of their individual qualifications without regard to race, creed, sex, or national origin.

Financial Aid. There is a variety of financial assistance available to all medical students. Further information and applications for financial aid may be obtained from: Student Financial Aid Office, University of Missouri—Kansas City, 4825 Troost Avenue, Kansas City, Missouri 64110. Application should be made prior to February 15 of the year for which the student is applying.

Information for Minorities. The University of Missouri—Kansas City offers assistance to disadvantaged students. Further information is available from Dr. Gloria Robinson-Lewis, coordinator, Minority Recruitment and Retention, or Kim Huggett, coordinator, Council on Selection, University of Missouri-Kansas City School of Medicine.

Application and Acceptance Policies for 1991-92 First-Year Class

Year 1 of six-year program.

Filing of application
  Earliest date: Aug. 1, 1990
  Latest date: Dec. 1, 1990
School application fee: $50 for nonresidents
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Mar. 15, 1991
  Latest date: May 1, 1990 (flexible)
Applicant's response to acceptance offer
  Maximum time: by May 1, 1990
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer; refundable
Estimated number of new entrants: 100
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Resident: $8,213
  Nonresident: $12,525

Information on 1989-90 First-Year Class

Year 1 of six-year program.

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	278	177	455
Applicants Interviewed	181	94	285
New Entrants	87	15	102

Saint Louis University School of Medicine

Dr. William Stoneman III, Dean
Dr. Manuel R. Comas, Associate Dean
for Admissions and Students
Mary Fenton, Director of Financial Aid

Address inquiries to:
Nancy McPeters
Admissions Committee
Saint Louis University
School of Medicine
1402 South Grand Boulevard
St. Louis, Missouri 63104
(314) 577-8205

General Information. Saint Louis University is a privately endowed, coeducational institution founded by the Jesuits in 1818. The first faculty of medicine was appointed in 1836, and the school assumed its general present form in 1903. Today the Saint Louis University Medical Center includes: the new University Hospital (inaugurated on January 1, 1988), the School of Medicine (Schwitalla Hall, Doisy Medical Research Facility, and Margaret McCormick Doisy Learning Resources Center), Firmin Desloge University Hospital, Bordley Pavillion, David P. Wohl Memorial Mental Health Institute, Cardinal Glennon Memorial Hospital for Children, Bethesda Eye Institute, Doctors' Office Building, Institute of Molecular Virology, School of Nursing, and School of Allied Health. Major affiliations include Deaconess Medical Center, DePaul Medical Center, St. John's Mercy Medical Center, St. Mary's Health Center, and the St. Louis Veterans Administration hospitals.

Curriculum. The school builds its clinical training offerings upon a rigorous grounding in the fundamental basic sciences of medicine. Thus, the M.D. degree curriculum follows the classical structure of two years devoted largely to a complete exposure to the basic and behavioral sciences, with clinical correlation, followed by two years of both structured and elective experiences in the clinical disciplines of medicine. The objective is to graduate a humanistic physician who is well qualified to embark upon postgraduate training in a selected discipline, but with a base of fundamental knowledge from which to conduct a lifetime of learning. Distinctive aspects of the program include:

1. Multidepartmentally oriented courses in medical communication skills, human sexuality, nutrition, emergency medicine, and working with dying patients and their families.
2. Novel use of a clinical simulation complex, which affords medical students a systematic and controlled introduction to virtually all of the skills required of them in the clinical phase of their education. The Crimmins Complex is used in the physical diagnosis course for sophomore medical students, in the medical communication skills courses, and by individual undergraduate medical students and residents for independent study.
3. Multiple clinical training sites offering a variety of patients from different social backgrounds.
4. A flexible senior year enabling students to design a significant portion of their program in collaboration with faculty advisers. National and international elective experiences are available to the senior medical student.
5. Opportunity to participate in a combined M.D.-Ph.D. program, in which qualified medical students undertake graduate studies leading to the Ph.D. in one of the basic science disciplines.

Requirements for Entrance. Saint Louis University School of Medicine encourages applications from students who have demonstrated a high level of academic achievement and who manifest in their personal lives those human qualities which are required for a career of service to society. Specific academic requirements include the MCAT and a minimum of 90 semester hours (135 quarter hours) in undergraduate arts and science courses. Most accepted applicants complete a baccalaureate degree of at least 120 semester hours (180 quarter hours) from an accredited college or university. Specific course requirements are:

	Sem. hrs.
General biology or zoology (with lab)	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
Physics (with lab)	8
English	6
Other humanities and behavioral sciences	12

Biochemistry is strongly recommended.

Applicants are expected to have pursued one area of knowledge or discipline in depth. The Admissions Committee does not favor any specific major in its decisions.

Suitable areas of concentration include the behavioral sciences, humanities, and natural sciences.

Selection Factors. The selection of candidates is based upon demonstrated intellectual ability and personal qualifications, including motivation, character, emotional maturity, and personality. There is no discrimination on the basis of race, sex, age, creed, or physical disability. There are no geographical restrictions or quotas for American citizens. All applicants receive serious consideration, and some additional attention is given to applicants from Saint Louis University.

Students for the 1989 entering class had the following average academic credentials: *science-math GPA,* 3.41; *overall GPA,* 3.44, *mean MCAT scores, B*-10.1, *C*-9.9, *P*-10.0, *SP*-10.0, *SA:R*-8.7, *SA:Q*-8.9; *sex,* 28 percent women; *residence,* 18 percent from Missouri, 27 states represented; *undergraduate major,* 58.5 percent in life sciences, 25.4 percent in chemistry.

Financial Aid. Loan and scholarship aid is available and is awarded on the basis of exceptional financial need. Information on the financial status of parents is required of all students seeking university aid. Primary responsibility for arranging the financing of medical education rests with the students or their families.

A financial aid information packet is sent to all accepted applicants. This packet contains the need analysis form, suggestions on aid, explanation of federal programs, and the application form for financial assistance from Saint Louis University.

Information for Minorities. The School of Medicine seeks to obtain a better representation of the minority groups that are significantly underrepresented in the physician pool of the St. Louis region and encourages qualified minority students to apply.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1985
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 145 (8 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $17,450

Student fees: $450

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	175	2,214	2,389
Applicants Interviewed	75	634	709
New Entrants*	26	116	142

*100% took the MCAT and had baccalaureate degrees.

Washington University School of Medicine

Dr. William A. Peck, Vice Chancellor for Medical Affairs
Dr. John C. Herweg, Associate Dean and Chairman, Committee on Admissions
John F. Walters, Assistant Dean and Financial Aid Officer

Address inquiries to:
Admissions Office
Washington University
School of Medicine
660 South Euclid Avenue
St. Louis, Missouri 63110
(314) 362-6857

General Information. In 1891, the Saint Louis Medical College, which had been founded in 1842, became the Medical Department of Washington University. In 1899, the Missouri Medical College, which had been in operation since 1840, joined Washington University, thus uniting the two oldest medical schools west of the Mississippi River as the Medical Department of Washington University. Clinical teaching facilities are provided by Barnes Hospital and three other major associated hospitals with a total capacity of 1,788 patient beds. The Edward Mallinckrodt Radiological Institute, a rehabilitation center, and the Institute for Biomedical Computing are situated on the Washington University Medical Center campus. Basic science teaching facilities are located in the lecture halls and multidisciplinary laboratories of the McDonnell Medical Sciences Building. The Clinical Sciences Research Building houses research laboratories for the school's clinical departments, the Howard Hughes Institute, and elaborate animal care facilities.

Curriculum. The school emphasizes the scientific basis of medicine in all aspects of its preclinical and clinical curriculum. Thoughtful and serious consideration is also given to the emotional, social, and cultural characteristics of patients and to the necessity of adapting medical care to meet their needs.

The four-year curriculum provides a rigorous first year of course work in gross anatomy, biochemistry, medical genetics, molecular biology, cell biology, biomedical statistics, medical humanities, histology, immunology, medical microbiology, neural science, and physiology. The second-year curriculum is a progressive introduction to clinical medicine, featuring pathology, pharmacology, and pathophysiology taught in correlative fashion. The third year is a clinical clerkship experience with emphasis on bedside teaching in all major clinical disciplines. The fourth year is a full year of electives planned and selected by the student with the aid of faculty advisers.

A five-year M.A-M.D. program is available for students desiring a full year of research training. A six-year Medical Scientist Training Program permits students seeking a career in academic medicine to obtain both M.D. and Ph.D. degrees.

A tutorial program is available to any student in the school who needs academic assistance. A pass/fail grading system is used the first semester; an honors/high pass/pass/fail grading system is used thereafter.

Requirements for Entrance. Accepted applicants must present evidence of superior intellectual ability and achievement, completion of at least 90 semester hours of course work in an approved college or university, satisfactory performance on the MCAT, and attributes necessary for a productive career in medicine.

Mathematics, physics, and chemistry provide the tools for modern biology, medicine, and the biological basis of patient care. Accordingly, premedical education should include a minimum of the following courses:

	Years
Biological science	1
General or inorganic chemistry	1
Organic chemistry	1
Physics	1
Mathematics	1

Through differential and integral calculus.

Prerequisites are subject to waiver by the Committee on Admissions. The development of the intellectual talents of an individual often involves the in-depth pursuit of some areas of knowledge in humanities, social sciences, or natural sciences. A diversified background of cultural development is encouraged.

Selection Factors. Students are selected on the basis of character, attitude, interest, intellectual ability, motivation, maturity, and past achievement as indicated both by superior scholastic work and active participation in extracurricular activities prior to entering medical school. Washington University policies and programs are nondiscriminatory, and full consideration is given to all applicants without regard to sex, age, race, handicap, creed, or national or ethnic origin. Minority group students are strongly encouraged to apply.

Students in the 1989 entering class had the following credentials: *mean science GPA, 3.65; mean nonscience GPA,* 3.66; *mean total GPA,* 3.66; *sex,* 29 percent women; *undergraduate major,* 45 percent in biological sciences or preprofessional studies, 29 percent in chemistry or biochemistry, 10 percent in physics, mathematics, or engineering, 16 percent in a variety of other fields of study.

Early submission of the AMCAS application permits its prompt evaluation by the Committee on Admissions. All applicants are invited to complete their application with letters of evaluation and additional personal information. Selected applicants are invited for interview. All accepted applicants are interviewed.

Financial Aid. The financial resources of an applicant do not enter into the admission selection process. Immediately upon notification of acceptance, the applicant may file for consideration for financial aid. An award decision is usually made within two weeks following receipt of the completed forms. Awards are based on documented financial need and consist of both scholarships and loans.

Information for Minorities. The school is committed to the recruitment, enrollment, education, and graduation of an increased number of individuals from disadvantaged groups. For information write Dr. Robert Lee, assistant dean for minority student affairs.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $45
Oldest MCAT scores considered: 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Aug. 14, 1991
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 120
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees: $14,100

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	131	3,409	3,540
Applicants Interviewed	37	830	867
New Entrants*	13	105	118

*100% took the MCAT and had baccalaureate degrees.

Creighton University School of Medicine

Dr. Richard L. O'Brien, Dean
James L. Glass, Director, Medical Admissions
Bob Walker, Director of Financial Aid

Address inquiries to:
Medical School Admissions Office
Creighton University
California at 24th Street
Omaha, Nebraska 68178
(402) 280-2798

General Information. The Creighton University School of Medicine was opened in October 1892, 14 years after the opening of the parent university. Its plant includes three units that provide all facilities for research, basic science, and preclinical teaching. St. Joseph's Hospital, accommodating 403 patients, is the principal teaching hospital of the medical school. Clinical instruction is also carried out in the Children's Memorial, Veterans Administration, and Bergan Mercy hospitals. Clinical services are also conducted at several other area hospitals and the Boys Town Institute for Communication Disorders in Children. The Bio-Information Center, located on the west campus north of the hospital, contains a multimedia self-instructional component, a biomedical communication center, an educational services unit, and the traditional library facilities.

Curriculum. The curriculum, under continuous study and review by a faculty-student committee, provides instruction in the traditional preclinical sciences along with courses in behavioral science and public health/epidemiology during the first year and a half, followed by a half-year didactic program in clinical medicine and physical diagnosis. A third-year clerkship program of 48 weeks, covering all major clinical areas, is designed to provide an intensive exposure to the problems encountered in clinical medicine and to allow students to make early judgments concerning possible career choices. The fourth year, which is entirely elective, provides courses in the preclinical as well as clinical disciplines that range from laboratory research to advanced clerkship programs. A faculty advisory system aids the students in choosing courses that will broaden their background for a career in medicine as well as satisfying their special interests.

Numerical percentages are compiled for the first three years in order to provide a class ranking system.

Requirements for Entrance. The MCAT and three years (at least 90 semester hours) of accredited college work are mandatory. Preference is given, however, to holders of the baccalaureate degree. Applicants may take the MCAT in the fall of the year preceding their entry into medical school. All requirements for admission must be completed by June prior to entry. Course work must include:

	Sem. hrs.
General biology (with lab)	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8-10
General physics (with lab)	8
English	6

Although no additional science courses are required, applicants may pursue a baccalaureate program with a science major or with a major in any field of liberal arts (except for military science) appropriate to their interest, such as English, foreign language, history, political science, or sociology. Up to 27 hours of credit are accepted under CLEP and/or advanced placement programs.

Selection Factors. Consideration will be given to all of the qualities considered to be necessary in a physician. Intellectual ability and curiosity, emotional maturity, honesty, and proper motivation, in addition to proven scholastic ability, are of the utmost importance. The preprofessional committee evaluations and letters of recommendation are equally important.

The school reserves the right to require a formal interview of every applicant selected before it finalizes the acceptance. The interview usually will be held on the university campus.

There are no restrictions placed on applicants because of race, religion, sex, national or ethnic origin, age, handicap, or status as a disabled veteran or veteran of the Vietnam era. Candidates are not restricted by state of residence, but preference is given to students who reside in mid-western states and to applicants from states that do not have medical schools. Preference is also given to applicants who have undertaken their preprofessional education at Creighton University.

Because the cumulative and science GPAs of the 110 candidates selected for the 1989 entering class were 3.34 and 3.26, respectively, it is suggested that no candidate apply whose GPA in either situation is below 3.0. Other characteristics of the 1989 entering class were: *sex*, 33 percent women; *undergraduate major*, 90 percent in science.

The AMCAS application is the principal source of information on the candidates. Additional information is requested upon receipt of the AMCAS form.

Financial Aid. In addition to federally insured student loan programs and funds available from major foundation grants, a limited number of scholarships and fellowships are available for upperclassmen and for a few well qualified entering students. Scholarship aid is awarded primarily on the basis of personal financial need.

Approximately 72 percent of the students receive some form of financial aid during a part or all of their four years of study. Students are discouraged from accepting outside employment because of the lack of available time during a heavy academic schedule, but spouses of students usually have no difficulty in finding employment in the Omaha metropolitan area.

Information for Minorities. Consideration is given to applications from American black, American Indian, Mexican American, and mainland Puerto Rican candidates. Special summer courses and tutorial services are available to the candidates should the need arise. The school application fee will be waived if AMCAS has first waived its charges. Financial aid in the form of grants and long- term loans is available on the basis of proven need.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $40
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: March 1, 1991
Estimated number of new entrants: 110 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees: $14,830

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	142	3,406	3,548
Applicants Interviewed	*	*	663
New Entrants†	19	91	110

*Data not available.

†100% took the MCAT; 96% had baccalaureate degrees.

University of Nebraska College of Medicine

Dr. Robert H. Waldman, Dean
Dr. J. Calvin Davis III, Assistant Dean for Admissions and Students
Robert T. Fredlund, Director of Financial Aid

Address inquiries to:
Chairman, Admissions Committee
Room 5017, Wittson Hall
University of Nebraska
College of Medicine
42nd Street and Dewey Avenue
Omaha, Nebraska 68105
(402) 559-4205

General Information. The University of Nebraska College of Medicine celebrated its centennial in the academic year 1980–81. Medical education has been continuous in Omaha since students first entered the Omaha Medical College in the fall of 1880.

The University of Nebraska Medical Center includes colleges of dentistry, medicine, nursing, and pharmacy, a school of allied health, University Hospital, University Outpatient Services, University Geriatric Center, Eppley Cancer Research Institute, and C. Louis Meyer Children's Rehabilitation Institute. These facilities are supplemented by direct teaching affiliations with the Veterans Hospital and eight private hospitals, two of which are on the Medical Center campus. Students, thus, have access to facilities with a total of approximately 2,800 teaching beds. Preceptorships in family practice are conducted in 68 locations in all parts of the state.

Curriculum. The goal of the College of Medicine is to develop the knowledge, skills, and attitudes appropriate for all doctors of medicine. The college aims to provide a sound basis for support of career choices in medical practice, teaching, research, or administration by stimulating students to obtain a background of basic information, a command of the language of biomedical science, a mastery of the skills necessary for clinical problem-solving, a habit of self-education, and a sympathetic understanding of the behavior of healthy and sick people. The college is particularly oriented toward training physicians to meet all the health care needs of the citizens of Nebraska. In the four-year curriculum, preclinical science and clinical science share scheduled hours for two years. Primary clerkships occupy the third year, and the final year includes a community preceptorship in family practice and electives. Some of the elective period may be spent at another medical center in the United States, or arrangements may be made for a foreign fellowship.

A letter grading system is used; narrative commentary from clerkship directors supplements the grading system for clinical students.

Requirements for Entrance. The MCAT and a minimum of 90 semester hours (three years of college work) in an accredited college are required. However, to provide an opportunity for in-depth study, the completion of a college major or baccalaureate degree is strongly recommended. The undergraduate program must include:

	Sem. hrs.
Biology (with lab)	8–10
Inorganic chemistry (with lab)	8–10
Organic chemistry (with lab)	8–10
Physics (with lab)	8–10
Humanities and/or social sciences	12–16
Minimum of three or four courses.	
Calculus or statistics	
English composition or writing course	

Besides meeting specific requirements, applicants are encouraged to adopt an educational goal that includes exploring areas of personal interest. In view of the rapidly broadening scope of medicine, a well rounded education is considered optimum preparation. The requirements are consistent with that belief.

Selection Factors. Selection is based upon a total assessment of each candidate's motivation, interests, character, demonstrated intellectual ability, previous academic record and its trends, personal interview, scores on the MCAT, and general fitness and promise for a career in medicine. Admission is based upon individual qualifications without regard to age, sex, sexual preference, race, national origin, handicap, or religious or political beliefs. Academic credentials are evaluated on the basis of course level and load, involvement in cocurricular activities or employment, and other influential factors. Cutoff levels for GPAs or for scores on the MCAT are not utilized; however, applicants are reminded of the competition for entrance and are advised to be realistic. Personal attributes are assessed through letters of reference and in the interview.

Strong preference is given to residents of Nebraska, but a limited number of students from other states may be accepted. The University of Nebraska encourages, in particular, students from rural areas, small towns, or disadvantaged backgrounds to apply. The potential for service to underserved communities is taken into consideration during the preadmission evaluation.

Accepted students for the 1989 entering class had the following credentials: *mean GPA,* 3.53; *sex,* 47 percent women; *undergraduate major,* approximately 75 percent science majors.

Financial Aid. Some scholarships are available each year. A few may be granted to entering freshmen. Several fellowships and assistantships are available to students who desire to take one or two years of graduate study or research in the basic sciences. Loan funds have been increased through efforts of physicians in Nebraska, fraternal organizations, and friends of the college. Approximately 60 percent of the students receive some financial aid.

Information for Minorities. The University of Nebraska College of Medicine is committed to increasing the number of physicians from ethnic groups presently underrepresented in the medical profession. Applications are encouraged from resident and nonresident black Americans, American Indians, mainland Puerto Ricans, and Mexican Americans. The accomplishments of applicants will be evaluated with due consideration given to their background. The college makes every effort to retain minority students. Necessary tutorial assistance will be provided. Specific information is available from the director of minority student affairs.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee: None
Oldest MCAT scores considered: 1980
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Jan. 2, 1991
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition):
  \$100, due within 30 days of acceptance offer
Deposit refundable prior to: June 15, 1991
Estimated number of new entrants: 120
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: \$7,028
  Nonresident: \$12,640

Student fees: \$645

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	199	563	762
Applicants Interviewed	188	93	281
New Entrants*	102	10	112

*100% took the MCAT; 94% had baccalaureate degrees.

University of Nevada School of Medicine

Dr. Robert M. Daugherty, Jr., Dean
Dr. Jerry R. May, Assistant Dean for Admissions
Dagmar Copenhaver, Program Assistant

Address inquiries to:
Office of Admissions
University of Nevada
School of Medicine
Reno, Nevada 89557
(702) 784-6001

General Information. The University of Nevada School of Medicine is a community-based, university integrated school which relies heavily on community physicians as teachers and community health facilities as sites for the majority of its clinical education. The school is dedicated to selecting individuals with diverse backgrounds who will learn to be compassionate and competent physicians. Students study comprehensive health care delivery considering the needs of the individual, the family, and the community.

Curriculum. The first two years of the program are concentrated in classrooms and laboratories on the Reno campus. The curriculum emphasizes biomedical and behavioral sciences basic to medicine. Basic science disciplines are often integrated with each other and with clinical problems to promote the learning of problem-solving skills. Also, a clinical correlation course which explores the basics of biomedical ethics is taught.

In addition to courses in community health, anatomy, behavioral sciences, microbiology/biochemistry, pharmacology, physiology, and pathology, students learn the basic physician skills of interviewing, obtaining a medical history, and performing a physical examination on patients. At the end of the first year, students may spend time with a physician to observe medical practice in the office setting or can become involved in faculty basic research programs.

The third and fourth years of the curriculum include experiences in community hospitals and physicians' offices in family medicine, internal medicine, obstetrics and gynecology, pediatrics, psychiatry, and surgery. These two years concentrate on the major clinical specialties of medicine and are a combination of required rotations and elective time. Rotations and electives are offered in Reno, Las Vegas, and rural Nevada; ample opportunity for elective experience out of state also exists.

Individualized M.D.-Ph.D. programs are offered to students, depending upon the specific interest area.

Requirements for Entrance. The MCAT and a minimum of three years of college work (90 semester hours) are required. The MCAT must be taken prior to the November 1 application deadline. The Admissions Selection Committee strongly recommends completion of a baccalaureate degree prior to matriculation in medical school.

Applicants are encouraged to have a broad educational background; no specific major is deemed superior to another. In addition to academic course work, people-oriented activities and health care exposure are important.

Course work must include:

	Sem. hrs.
Biology	8
Inorganic chemistry	8
Organic chemistry	8
Physics	8
Behavioral sciences	6

Must include 3 sem. hrs. of upper division credit.

Accepted students are responsible for completing all prerequisite course work prior to matriculation. Testing out of a class (CLEP or AP) and/or receiving pass/fail or audit in lieu of a letter grade is not acceptable. Application during the summer is strongly encouraged.

In fulfillment of the behavioral sciences requirement students should take courses that deal with the psychological stages of the life cycle (that is, human growth and development, adolescence, aging, human sexuality, abnormal psychology, family dynamics, or medically oriented sociology).

Supplementary courses strongly recommended but not required for admission include history, literature, philosophy, ethics, and computer sciences.

A demonstrated competency in English composition and expression is required. Generally, students are expected to satisfy the English composition requirements of their undergraduate institution.

Selection Factors. Candidates are evaluated on the basis of academic performance; results of the MCAT; the nature and depth of scholarly, extracurricular, and health care related activities during college years (excellence and balance of the natural sciences, social sciences, and humanities); academic letters of evaluation; and the personal interview, if requested by the Admissions Selection Committee. Interviews are held in Reno or Las Vegas.

A high priority is given to residents of Nevada. A small number of out-of-state applicants are considered each year who have strong residential ties to Nevada (that is, parents' residence, medical catchment area) or who are residents of Alaska, Idaho, Montana, or Wyoming, which are western rural states without medical schools. Out-of-state applicants should apply early, and their files must be completed by December 1. Individuals who do not meet the residential requirements are discouraged from applying to the University of Nevada. Residency consideration and out-of-state tuition policies are currently under review, and interested applicants should call the Office of Admissions for further information.

Accepted students to the 1989 entering class had the following general features: *undergraduate major,* 90 percent in science and mathematics (includes premedical majors), with the remainder from a variety of majors; *mean age,* 24; *sex,* 39 percent female; *mean GPA,* 3.4; *mean MCAT,* 8.4.

The Admissions Selection Committee has adopted an admission policy which enables applicants to be assessed on numerous factors. The committee encourages applicants of both sexes and from all socioeconomic, racial, religious, and educational backgrounds. Applications from members of minority groups are encouraged.

Transfer positions to the second and third years are based on availability. Applications will only be accepted from individuals in good standing from accredited U.S. medical schools and applicants who have a strong residential tie to Nevada. The University of Nevada does not accept applications for advanced standing from students attending foreign medical schools.

Criteria for the Early Decision Program include a minimum undergraduate GPA of 3.5 and an average MCAT of 9.5.

Financial Aid. A limited number of loans and scholarships are available to medical students. Awards are made on the basis of need and merit according to circumstances and availability of funds. More than 80 percent of Nevada's medical students receive some type of financial assistance. Although acceptance is not based on an applicant's ability to pay the responsibility of adequate funding rests with the student. Further information and applications for financial aid may be obtained from the Student Financial Aid Office, University of Nevada, Reno, Nevada 89557.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $35
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  For Nevada residents only
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Jan. 15, 1991
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 48 (2 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Resident: $5,060
  Nonresident: $11,990

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	96	323	419
Applicants Interviewed	96	20	116
New Entrants*	38	8	46

*100% took the MCAT and had baccalaureate degrees.

Dartmouth Medical School

Dr. Robert W. McCollum, Dean
Frances R. Hall, Assistant Dean, Admissions and Financial Aid
Nanci G. Cirone, Director of Financial Aid

Address inquiries to:
Office of Admissions
Dartmouth Medical School
Hanover, New Hampshire 03756
(603) 646-7505

General Information. Dartmouth Medical School, the fourth oldest medical school in the United States, is a component of the Dartmouth-Hitchcock Medical Center (DHMC) which includes the Mary Hitchcock Memorial Hospital, the Hitchcock Clinic, and the Veterans Administration Hospital. The DHMC is a tertiary-care referral and treatment center for 1.5 million people in northern New England. Currently located adjacent to the campus of Dartmouth College, the entire DHMC will move in 1991 to a new clinic campus two miles from the present site. The new DHMC will include 429 beds in two five-story inpatient towers, a diagnostic and treatment center, an ambulatory care building, an education building, and two research buildings. The new center is situated on a 225-acre campus, surrounded by natural scenery of hemlock and pine forests. Additional clinical facilities are provided by the Brattleboro Retreat (Vt.), a 149-bed psychiatric Institute; Hartford Hospital (Conn.); Martin Luther King Hospital (Calif.); and a number of primary care sites throughout New Hampshire, Vermont, and Maine. A faculty of over 840 offers all students the opportunity for individually based instruction.

Curriculum. The M.D. curriculum at Dartmouth, a four-year sequence providing training in basic science and clinical areas, emphasizes the fundamentals that underlie all medical practice. The curriculum begins with a year of basic science courses which form the foundation for the interdisciplinary pathophysiology study of the second year. Clerkships in medicine, surgery, psychiatry, neurology, ambulatory medicine, surgical subspecialties, emergency department, maternal-child health, and primary care are scheduled during the third and fourth years. The fourth year includes courses in therapeutics and in health and society and 12 weeks of electives which may include clinical electives, research rotations, and courses. A combined M.D.-Ph.D. program in biochemistry, physiology, pharmacology, and bioengineering is available for candidates with expressed interest in a research career.

Entering class size at Dartmouth Medical School is 84. Sixty-four students follow the four-year curriculum at Dartmouth, described above, and receive the M.D. degree from Dartmouth. Twenty students, admitted jointly by Dartmouth and Brown University, spend the first two years studying basic sciences at Dartmouth and the last two years receiving clinical education at Brown. The admission process for these 20 students is a joint one, involving both schools. Students admitted to the joint program are assured of transition to Brown following completion of the first two years at Dartmouth. Joint program students are awarded the M.D. degree from Brown University.

Applicants are encouraged to apply to both programs simultaneously and to indicate a preference after interviews. Individuals are offered acceptance to only one program, but wherever possible to the program of preference.

Requirements for Entrance. Except in unusual circumstances all candidates are expected to present scores from the MCAT. The MCAT is required of all candidates for the joint program. Where possible, the spring MCAT is recommended and helps the Admissions Committee to proceed expeditiously with the review of an application.

Specific courses required at college level are:

	Sem. hrs.
General biology	8
Inorganic chemistry	8
Organic chemistry	8
Physics	8
Calculus	3

Proficiency in written and oral English is required.

In general, the demonstration of competence in an area of study is a more important criterion than the particular discipline. Hence, students are encouraged to major in the field of their special interest and, if possible, to pursue independent investigation in that field. Students majoring in nonsciences who have demonstrated competence in science are encouraged to apply.

Selection Factors. The decisions of the Admissions Committee depend on appraisal of the entire application, including a thorough evaluation of personal and intellectual qualifications. Rigid cutoff points and inflexible criteria are avoided. Dartmouth Medical School is a national institution enrolling students from across the country. In addition, as the only medical school in New Hampshire, the school looks carefully at applications from New Hampshire residents. Rhode Island residents also are given careful consideration for the Brown-Dartmouth Program.

All applicants in the final group from which the class is chosen are interviewed in Hanover. A limited number of applicants are selected for interview and invited throughout the academic year.

It is the long-standing policy of Dartmouth Medical School to actively support equality of opportunity for all persons regardless of race or ethnic background, and no students shall be denied admission or financial aid or be otherwise discriminated against because of age, physical handicap, race, creed, religion, sex, sexual orientation, or national origin.

Individuals holding or working toward advanced degrees are selected by the same criteria as are other applicants.

Application for the Brown-Dartmouth Program is initiated at Dartmouth. Upon receipt of applicants' AMCAS files, Dartmouth will forward secondary materials that will allow the applicants to indicate the curricular tracks for which they wish to be considered. Applicants invited for interview receive a form on which to rank their choices. In selecting applicants for the joint program, the admission policies and standards of both institutions are observed. Successful applicants are offered acceptances to only one program at a time. Letters of acceptance state the program to which the student has been admitted and are binding.

Financial Aid. All accepted applicants with documented need are offered financial aid packages which fully meet their need. Approximately 80 percent of the students receive financial aid, usually as a combination of scholarship and loan or through the Armed Forces Health Professions Scholarship Program. Scholarships and loans are awarded on the basis of need as documented on the GAPSFAS form (see Chapter 6). Admission decisions are made without regard to financial need.

A number of part-time jobs are available in the library, hospital, and medical school research laboratories.

Application fee waiver is possible for individuals who have received an AMCAS fee waiver.

Information for Minorities. Applications from members of ethnic minority groups underrepresented in American medicine are encouraged. Of the 1989 entering class, 10.7 percent were individuals from underrepresented minority groups. Dartmouth Medical School makes efforts to identify qualified minority applicants and welcomes applications from minority students. Special questions concerning the identification of minority candidates and the admissions and financial aid process should be addressed to the assistant dean, admissions and financial aid.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $55
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Nov. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class: None
Estimated number of new entrants: 84 (12 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $20,000

Student fees: $695

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	48	2,998	3,046
Applicants Interviewed	16	445	461
New Entrants*	7	77	84

*92% took the MCAT; 100% had baccalaureate degrees.

University of Medicine and Dentistry of New Jersey
New Jersey Medical School

Dr. Ruy V. Lourenço, Dean
Dr. Joseph P. Tassoni, Associate Dean for Student Affairs and Director of Admissions
Michael Katz, Director of Financial Aid

Address inquiries to:
Director of Admissions
UMDNJ-New Jersey Medical School
185 South Orange Avenue
Newark, New Jersey 07103
(201) 456-4631

General Information. The New Jersey Medical School of the University of Medicine and Dentistry of New Jersey (UMDNJ-NJMS) moved into facilities situated in Newark in 1977. A $250-million complex contains the teaching-research Biomedical Science Building, a hospital, a library, a dental school, and a community mental health center.

Major clinical instruction is carried out at the University Hospital, East Orange Veterans Administration Hospital, St. Michael's Medical Center, Beth Israel Hospital, Jersey City Medical Center, United Hospitals of Newark Medical Center, Hackensack Hospital, St. Joseph's Hospital of Paterson, St. Elizabeth's Hospital and Eye Institute of New Jersey, and St. Barnabas.

Curriculum. During the first two years a thorough coverage of the basic medical sciences is implemented through departmental and integrated interdepartmental studies. A broad program of clinical correlations occurs throughout all the basic sciences. Introductory courses in clinical sciences, physical diagnosis, psychiatry, public health, and preventive and community medicine are presented during the first two years of the curriculum. The third year is spent in rotations through all of the clinical departments. This is a closely supervised comprehensive endeavor in which the student acquires the basic knowledge and techniques of clinical medicine. Instruction is carried out mainly in small groups and individual instruction. The fourth year is devoted to advanced required work and elective programs. The required courses are emergency medicine, neurology, an acting internship, and the practice of medicine course, which brings together the ethical, legal, and social factors that are part of total patient care. A curriculum task force is now in the process of making significant changes in our curriculum. Problem-based learning will have an important part, as well as an earlier introduction to patients and patient care.

Starting with the class entering in August 1986, UMDNJ-NJMS enrolled students directly from high school into a seven-year liberal arts/medical education combined-degree program in conjunction with Boston University. Inquiries may be directed to NJMS or the Admissions Office at Boston University. Similar programs are now in place with Stevens Institute of Technology and New Jersey Institute of Technology.

Requirements for Entrance. The MCAT and a minimum of three years of college (90 credit hours) are required. Three-year applicants with good credentials are encouraged to apply.

The minimum requirements are:

	Sem. hrs.
Biology or zoology (with lab)	8
One year of general biology and one advanced course will satisfy the requirement. Course work must be exclusive of botany and invertebrate zoology.	
Organic chemistry (with lab)	8
Other chemistry (with lab)	8
Inorganic, physical, or analytical chemistry or biochemistry will satisfy the requirement.	
General physics (with lab)	8
English	6

A course in mathematics is recommended but not required.

Specific requirements may be waived or imposed at the discretion of the Admissions Committee in any individual case.

The Admissions Committee urges all candidates to prepare themselves further by completing courses in social or cultural fields and generally broadening their academic backgrounds. Candidates who are not premedical or science majors are given equal consideration if they have demonstrated academic excellence in the course requirements listed above.

Advanced standing programs may be available. For information contact the Office of Admissions.

Selection Factors. Students are selected on the basis of scholastic achievement, fitness and aptitude for the study of medicine, and other personal qualifications. Since success in medicine depends on a number of related factors in a student's development, of which scholastic accomplishments are only a part, the Admissions Committee also gives consideration to the use of language, special aptitudes, mechanical skill, stamina, perseverance, and motivation.

New Jersey Medical School applies no GPA or MCAT cutoff levels in its selection process. It must be remembered, however, that competition is very keen, and applicants who are high in all determinable categories often receive the highest priority for acceptance. There are no restrictions as to race, creed, sex, national origin, age, or handicap.

Accepted students in the 1989 entering class had the following profile: *average GPA,* 3.35; *sex,* 44 percent women; *residence,* 14 nonresidents; *disadvantaged minorities,* 38 students.

Applications from nonresidents are accepted. However, it must be pointed out that in competition with the large number of qualified New Jersey residents, only the most outstanding nonresident applicants have been successful. Reapplicants are not discouraged, but, as indicated, the competition is great.

Interviews are conducted primarily on campus but can be arranged at distant locales with alumni at the request of any applicant who has been screened positively for an interview.

Financial Aid. No questions of financial need are involved in the selection of students. All students who are accepted and wish to matriculate are advised to contact the financial aid officer immediately to discuss aid and fill out all necessary forms. All aid is given on the basis of financial need as assessed by an outside source. The needs analysis is usually adjusted upward to reflect costs in the northeastern United States. Approximately 70 percent of the students receive some form of financial aid. The Financial Aid Office extends itself to help all students in financial need.

The $100 deposit may be waived in cases of financial hardship.

Information for Minorities. Minority students are encouraged to apply if they have completed the requirements. A special summer program is open to economically and educationally disadvantaged students who have been accepted as well as to others in various stages of their undergraduate college careers. Information is available from Foster Burnett, assistant dean for student affairs.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: One $25 application fee for any combination of UMDNJ professional schools (medical, osteopathic, and dental)
Does have Early Decision Program (EDP)
  For exceptional New Jersey residents only
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: July 1, 1990
Estimated number of new entrants: 170 (5 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $9,093
  Nonresident: $11,933

Student fees: $550

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	827	1,066	1,893
Applicants Interviewed	417	191	608
New Entrants*	156	14	170

*100% took the MCAT; 97% had baccalaureate degrees.

University of Medicine and Dentistry of New Jersey
Robert Wood Johnson Medical School

Dr. Norman H. Edelman, Dean
Dr. David Seiden, Assistant Dean for Admissions
Helen S. Vlachakis, Associate Director of Financial Aid

Address inquiries to:
Office of Admissions
UMDNJ-Robert Wood Johnson Medical School
675 Hoes Lane
Piscataway, New Jersey 08854-5635
(201) 463-4576

General Information. Robert Wood Johnson Medical School, formerly known as Rutgers Medical School, was named after the former president and chairman of the board of Johnson & Johnson Company and the benefactor of the Robert Wood Johnson Foundation.

The Basic Science Building is located adjacent to the science campus of Rutgers University. The Institute of Mental Health Sciences, which houses the Department of Psychiatry, adjoins the building. Facilities shared with Rutgers University include the Library of Science and Medicine, the Center for Advanced Biotechnology and Medicine, and the Environmental and Occupational Health Science Institute.

Robert Wood Johnson University Hospital in New Brunswick is the major teaching facility. A major teaching affiliation with the Cooper Hospital/University Medical Center in Camden also exists. These two centers, supplemented by affiliations with community hospitals in central New Jersey, provide the Medical School with a full complement of diverse clinical training facilities.

The Medical School has a division at Camden. Separate applications are not required. Students who matriculate into this program receive their basic science education at the University of Medicine and Dentistry of New Jersey (UMDNJ) New Jersey Medical School in Newark and their clinical education at the Camden campus. Consequently, the M.D. degree is awarded by UMDNJ-Robert Wood Johnson Medical School.

Curriculum. The curriculum in the first two years is largely traditional. Students are exposed to clinical problems and spend a portion of time during their first two years in hospitals and the classroom discussing problems of patient care. In addition to the traditional curriculum, there are courses in behavioral science, psychiatry, environmental medicine, epidemiology/biostatistics, and human sexuality. Basic science instruction is centered in a series of small-group multidiscipline laboratories where a high degree of individualized attention is possible. The third-year curriculum consists of clinical clerkships in medicine, psychiatry, obstetrics and gynecology, pediatrics, surgery, and a series of subspecialty lectures. A clinical clerkship in family practice may be taken in either the third or fourth year. A choice of a subinternship, neurology, and ambulatory care experience are integral parts of the fourth-year curriculum. A course in Environmental Forces in Medicine is required. The remainder of the fourth year is devoted to elective experiences. Grades are reported as honors, high pass, pass, low pass, and fail.

Combined M.D.-Ph.D. programs are available at the Medical School and in conjunction with Rutgers University. Financial support that includes both stipends and tuition is available throughout the seven-year program.

Requirements for Entrance. The MCAT and a minimum of three years of college consisting of 90 semester hours of college work (exclusive of military and physical education) are required. The MCAT must be taken within the five years preceding application and no later than the fall of the year of application. The following undergraduate courses are required:

	Semesters
Biology or zoology (with lab)	2
Inorganic chemistry (with lab)	2
Organic chemistry (with lab)	2
Physics (with lab)	2
College mathematics	1
English	2

Must include one semester of a college writing course.

Robert Wood Johnson Medical School places high value on a balanced undergraduate education. While this balance will vary with the background and interests of the individual, it is expected that applicants will have exposed themselves to course work in the humanities, the behavioral sciences, and liberal arts as well as the premedical sciences. In addition, applicants may be asked to demonstrate competence in written English.

Students capable of superior performance in any academic field, whether in the sciences or humanities, should feel free to pursue their intellectual interests in depth, provided only that they can do well in the required courses mentioned above. The Admissions Committee may waive or impose specific requirements at its discretion. Ordinarily, applicants must be U.S. citizens or permanent residents to be eligible for admission.

Selection Factors. Applicants are considered without regard to race, religion, or sex. Preference for admission, however, is given to bona fide residents of New Jersey. While no set number exists, the school accepts a small percentage of the class from outside New Jersey. Consequently, competition in this category is keen, and nonresident applicants must present superior credentials.

Admission is determined on the basis of academic achievement in a balanced undergraduate education, results of the MCAT, preprofessional committee evaluations, other recommendations, character, motivation, and personal interview. Applications from qualified members of racial minority groups are encouraged. Interviews are arranged by invitation.

Accepted students for the 1989 entering class in Piscataway had a mean GPA of 3.35. Women comprised 38 percent of the class.

Financial Aid. Accepted students who believe they will need financial aid are encouraged to request information and application forms from the Financial Aid Office. More than 75 percent of the student body received some sort of financial assistance during the 1989–90 academic year. All financial aid is awarded on the basis of evaluated need computed by an approved needs analysis method. All awards consist of a package of loans and grants when funds are available. Over $300,000 has been allocated for freshman scholarships, which are renewable annually. Awards are made by the Admissions Committee and are based on merit.

Information for Minorities. UMDNJ-Robert Wood Johnson Medical School is committed to the education and training of minority physicians. Applications from both in-state and out-of-state candidates are welcome, and ample financial aid assistance is offered. Numerous support services are available, including a pre-enrollment summer program for accepted students. A summer Biomedical Careers Program for undergraduates interested in health care careers is also offered. Further information is available from Elsa Bracero or Betty Treadwell-Oglesby.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: One $25 application fee for any combination of UMDNJ professional schools (medical, osteopathic, and dental)
Oldest MCAT scores considered: 1985
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $50, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 130 (6 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $9,093
  Nonresident: $11,933

Student fees: $741

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	826	916	1,742
Applicants Interviewed	505	129	634
New Entrants*	112	18	130

*100% took the MCAT and had baccalaureate degrees.

University of New Mexico School of Medicine

Dr. Leonard M. Napolitano, Dean
Dr. Diane J. Klepper, Assistant Dean for Admissions and Student Affairs
Gwen M. Morrison, Coordinator, Student Services

Address inquiries to:
Office of Admissions
Basic Medical Sciences Building, Room 107
University of New Mexico
School of Medicine
Albuquerque, New Mexico 87131
(505) 277-4766

General Information. The establishment of a school of the basic medical sciences was authorized by the regents and the faculty of the University of New Mexico (UNM) in 1961. The first entering class of 24 students was enrolled in September 1964, and progress to the full four-year program was approved by the New Mexico State Legislature in 1966.

The medical school facilities are located on the north campus of the university and include a basic medical sciences building, biomedical research facility, medical center library, UNM Mental Health Center, UNM Children's Psychiatric Hospital, Family Practice Center, Center for Non-Invasive Diagnosis, and an international Cancer Center. The 300-bed University of New Mexico Hospital serves as the major teaching hospital of the medical school, with additional teaching at the 413-bed Regional Federal Medical Center in Albuquerque. The faculty numbers 505, with 320 full-time appointments.

The School of Medicine is a professional and graduate school of the university. In addition to providing education in the basic and clinical sciences for the doctor of medicine degree, opportunities are available for work leading to a doctor of philosophy degree. Medical education at the resident and postgraduate levels is offered through the university's teaching hospitals.

Curriculum. The University of New Mexico School of Medicine offers students an exceptional opportunity to choose between two learning environments in the first two years. The conventional curriculum employs an integrated teaching approach of the traditional first- and second-year courses in anatomy, biochemistry, histology, microbiology, physiology, pharmacology, and pathology, with emphasis on interdepartmental cooperation in teaching.

A second option is the primary care curriculum, an innovative, problem-based program. Here students work together in small-groups with a faculty facilitator using actual patient problems chosen to direct students into the concepts of the basic, clinical, and behavioral sciences in an integrated and active manner. At the end of the first year, students in this curricular track spend four months in a non-urban clinical preceptorship in New Mexico. Additional information on the primary care curriculum may be obtained by writing to: Primary Care Curriculum, School of Medicine, University of New Mexico Medical Center, Albuquerque, N. Mex. 87131.

The last two years of both tracks are designed to provide an in-depth study of clinical problems presented by patients in the hospital and outpatient setting. The senior year is largely elective, allowing for individualization of programs to meet the needs and desires of the student. Types and depths of experience are specified with the student choosing the specialty in which these experiences are taken. Applications for transfer into the second year will be considered from New Mexico and WICHE residents in approved foreign medical schools, and New Mexico and WICHE residents who have completed the equivalent of the first year of course work in a U.S. graduate or professional school. Students in four-year U.S. medical schools who have a compelling need to transfer to this school will be considered for transfer at the second- and third-year levels. All acceptances at the third-year level will be conditioned on a passing score on National Boards, Part I. Contingency acceptances may be granted prior to receipt of Boards scores if positions are available.

Students in U.S. medical schools who apply for transfer to the second-year class will be required to provide transcripts of course work and supporting letters from appropriate school officials at the medical school which will be used to evaluate students' qualifications for transfer. Second-year transfer applicants may be asked to take National Boards, Part I, so the committee on admissions can evaluate their performance on the first-year subjects. Foreign students will not be considered for transfer or admission unless they have completed at least two years of undergraduate or graduate study in this country.

Requirements for Entrance. The MCAT and three years of college are required. A college program leading to the bachelor's degree from an accredited college of arts and sciences is ordinarily recommended.

Minimum course requirements are:

	Sem. hrs.
General biology (with lab)	8
General or inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics	6

The following courses are strongly recommended: biochemistry, calculus, and Spanish.

Selection Factors. All applicants for first-year positions must apply through AMCAS. All New Mexico applicants will be sent additional application materials upon receipt of their application from AMCAS. Nonregional applicants, including WICHE and former New Mexico residents, must apply through the Early Decision Program to receive any consideration for admission. Those who pass an initial screening process will be sent full application materials and invited for interviews.

Selection is based upon scholastic achievement, performance on the MCAT, personal interviews with members of the Admissions Committee, and recommendations of a college professional advisory committee. The University of New Mexico is committed to providing equal educational and employment opportunities regardless of sex, marital or parental status, race, religion, age, or physical handicap. Preference is given to residents of New Mexico and next to applicants who are residents of western states which participate in the WICHE program.

While every effort is made to ensure that students will graduate, places are occasionally available for transfer students. Information on eligibility for transfer and transfer application forms may be obtained from the Office of Admissions.

To guide applicants in considering application to the School of Medicine the following information is provided on the 1989 applicant pool: 570 total applicants, 83 accepted, 73 matriculated; 147 New Mexico applicants, 79 accepted, 69 matriculated; 19 WICHE applicants, 3 accepted, 3 matriculated; 423 non-regional applicants, 1 accepted, 1 matriculated. Some characteristics of the 1989 entering class were: *average GPA,* 3.25 (78 percent above 3.0); *average MCAT total,* 55; *sex,* 40 percent women; *ethnic minorities,* 16 percent. All students offered acceptance were intereviewed at this school.

Financial Aid. The school makes available financial aid in the form of loans and scholarships to those students with demonstrated financial need. The amount of award varies according to the student's need and the level of funding available. A short-term, no-interest loan fund is available to all students in need of immediate financial help. The Student Affairs Office assists all students in locating necessary funds to support their medical education.

Information for Minorities. An active minority recruitment program engourages applications from Hispanic, American Indian, and Black residents of New Mexico.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee after screening: $10
Oldest MCAT scores considered: April 1977
Does have Early Decision Program (EDP)
  Nonresidents must apply through EDP
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: March 15, 1991
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 4 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 73 (15 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $2,750
  Nonresident: $7,000
Student fees: $32

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	147	423	570
Applicants Interviewed	142	10	152
New Entrants*	69	4	73

*100% took the MCAT; 93% had baccalaureate degrees.

Albany Medical College

Dr. Nancy Gary, Dean
Sara J. Kremer, Director of Admissions and Registrar
Alice Lemieux, Director of Financial Aid

Address inquiries to:
Office of Admissions, A-3
Albany Medical College
47 New Scotland Avenue
Albany, New York 12208
(518) 445-5521

General Information. Founded in 1839, the Albany Medical College is one of the oldest medical schools in the country. The college is coeducational, nondenominational, and privately supported.

The college buildings and those of the 674-bed Albany Medical Center Hospital are physically joined in one large complex that comprises Albany Medical Center. The hospital is both a community hospital for people of the immediate area and a tertiary diagnostic and treatment center for over two million residents of eastern New York and western New England. Additional clinical facilities are provided by the Albany Veterans Administration Medical Center, the Capital District Psychiatric Center, and other affiliated hospitals located nearby.

Curriculum. The Albany Medical College curriculum progresses from basic science to clinical science with no sharp demarcation. The first year is concerned with basic sciences; but there are associated patient presentations, and the teaching is clinically oriented. In the second year, major integration of the basic and clinical sciences is presented. During the third year, all major clinical areas are covered in clerkships as the students progressively assume clinical responsibilities. In the senior year, students may schedule much of their own curriculum by choosing from a variety of electives at Albany Medical Center Hospital and other affiliated hospitals as well as at other teaching institutions in the United States and abroad. Senior students may plan with their advisers programs that best serve their defined career goals or that provide opportunities to explore career developmental choices further.

Graduate studies are carried on within the basic science departments. Highly competent individuals expressing particular motivation and interest may pursue a combined M.D./Ph.D. program of studies. Considerable opportunity in research activity is also possible for medical students during the summer recess following the first and second years of study; appropriately motivated individuals are encouraged to take advantage of this program. A degree awarded with "Distinction in Research" may be earned.

Requirements for Entrance. Applicants for admission must have completed at least three years of study at an accredited college preferably in the United States or Canada. Most students admitted, however, will have earned the bachelor's degree.

Minimal course requirements for admission are:

	Sem./Qtr. hrs.
Biology or zoology (with lab)	6/9
Inorganic chemistry (with lab)	6/9
Organic chemistry (with lab)	6/9
General physics (with lab)	6/9

Proficiency in oral and written English is required.

When achievement in the required science courses is less than optimum, the desirability of augmenting the minimum requirements with additional experience in the fields of chemistry, embryology, genetics, and mathematics should be considered. On the other hand, ideally a physician's education should also rest on a base of general knowledge that includes a broad liberal arts education. Accordingly, students who have majored in the arts or humanities are considered on an equal basis with those who have majored in the sciences, provided that these students have demonstrated good capability in the required science studies.

The MCAT is also required and must be taken no later than the fall one year prior to the intended date of matriculation.

Selection Factors. In selecting students, emphasis is placed upon character, academic achievement, integrity, motivation, emotional stability, and social and intellectual suitability. The Albany Medical College is committed to the belief that educational opportunities should be available to all eligible persons without regard to race, creed, age, sex, religion, marital status, handicap, or national origin. Most students admitted are legal residents of New York State. Although preference is usually given to U.S. citizens, the committee will from time to time admit outstanding applicants who are citizens of other countries.

For the 1989 entering class, all applicants had a mean cumulative GPA of 3.2.

All applications are individually reviewed by members of the Committee on Admissions who are looking for qualities other than and in addition to the MCAT scores and GPA. If an interview is desired by the Committee on Admissions, the college will notify the candidate. Pertinent preapplication inquiries are welcome at any time.

Financial Aid. The college attempts to assist all students in every feasible manner through the award of scholarship and loan assistance as well as through guidance in employment. Eighty percent of the student body receive some scholarship and/or loan assistance. An announcement regarding application for financial assistance is distributed to all students by February 15 for the following academic year. Awards of scholarship and loan assistance are made in May by the Financial Aid Committee. Additional or new requests for financial assistance in the form of loans are accepted throughout the year.

In the Albany Medical Center there are opportunities for part-time employment for students through a federally funded work-study program.

Information for Minorities. The Office of Minority Affairs is responsible for developing and implementing programs that enhance educational opportunities for minorities to enter the medical and allied health professions. This office also coordinates the provision of academic, social, and cultural support services for matriculated minority students.

Among the programs administered by the Office of Minority Affairs are the Collegiate Science and Technology Entry Program (CSTEP) for advanced undergraduate premedical and medical students in Years I and II; the Science and Technology Entry Program (STEP), a health career awareness and science enrichment and readiness program for high school students; and the Minority High School Research Apprenticeship Program.

CSTEP enables all underrepresented minority and financially disadvantaged students to participate in a tuition free, six-week residential summer program during the summer prior to medical school enrollment. STEP also offers an academic year support program for these students.

An endowed scholarship fund for minority medical students was established in 1986 and is managed the Office of Minority Affairs.

The assistant dean for minority affairs is actively involved in the admissions process and reviews the applications of all minority candidates. More information may be obtained by contacting the Office of Minority Affairs, telephone (518) 445-5824.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1985
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 122
Starting date: Aug. 1991

Tuition per Year for 1989–90 First-Year Class

Tuition: $18,000

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,575	2,305	3,880
Applicants Interviewed	511	424	935
New Entrants*	81	41	122

*80% took the MCAT; 80% had baccalaureate degrees. Of the total new entrants, 23% are students who are enrolled in a combined B.S./M.D. program.

Albert Einstein College of Medicine of Yeshiva University

Dr. Dominick P. Purpura, Dean
Noreen Kerrigan, Admissions Officer
Lloyd Greenberg, Financial Aid Officer

Address inquiries to:
Office of Admissions
Albert Einstein College of Medicine
1300 Morris Park Avenue
Bronx, New York 10461
(212) 430-2106

General Information. The Albert Einstein College of Medicine is a privately endowed, coeducational, and nondenominational institution situated on a 17-acre site in a residential area of the northeast Bronx. Clinical education takes place in affiliated acute care hospitals, long-term care and skilled nursing facilities, hospices, and neighborhood health centers, all of which provide health care for most of the 1.2 million residents of the Bronx. These institutions include two public hospitals, Bronx Municipal Hospital Center and North Central Bronx Hospital, and two private voluntary hospitals, Montefiore Medical Center and Bronx Lebanon Hospital Center. More recent affiliates include the Booth Memorial Medical Center and Flushing Hospital Medical Center, community-based hospitals located in the borough of Queens. In addition to these clinical sites, there are a number of buildings devoted to biomedical research and teaching activities, including the Chanin Institute for Cancer Research and the Kennedy Center for Research in Human Development and Mental Retardation.

Apartments for students are located on and close to the campus, and a recreational sports center is located on the grounds of the main apartment building complex.

Curriculum. The first two years of the curriculum consist mainly of biomedical science courses, including an extensive interdisciplinary organ system approach to the teaching of pathophysiology and pathology. The Introduction to Clinical Medicine course is also scheduled during this phase of the curriculum, and most of the learning takes place in small groups under the guidance of faculty physicians. This course includes encounters with patients in a wide variety of clinical settings. The preclerkship curriculum includes a substantial amount of unscheduled time, especially in the first year. This enables students to have ample time for study and participate in optional courses, research, or nonacademic activities. A one-year period of clerkship rotations in the third year enables students to acquire clinical skills and knowledge while working with a diverse patient population at various health care sites in both inpatient and outpatient settings. The senior year provides extensive experience in ambulatory care as well as additional responsibilities for the care of hospitalized patients during a subinternship. Special opportunities during the six-month senior elective period include overseas exchange programs, international health fellowships, and a research program that leads to the M.D. degree with distinction in the student's research discipline. Evaluation of performance is on an honors/pass/fail basis supplemented by detailed narrative reports in clinical courses.

Students are encouraged to participate in research and other extracurricular scholarly pursuits, especially during the first summer and the period following clerkship rotations. A fully funded M.D.-Ph.D. program is offered to a maximum of six students in the first year, and several students may also be selected at the end of the second year. A Biomedical Science Pathway is available for about 20 first-year students who desire additional activities related to the scientific basis of clinical medicine.

Requirements for Entrance. The MCAT and a minimum of three years of full-time undergraduate study are required; four years are preferred. The minimum course requirements are:

	Sem. hrs.
Biology (with lab)	8
General chemistry (with lab)	8
Organic chemistry (with lab)	8
Physics (with lab)	8
College mathematics	6
English	6

The undergraduate major is not an important selection factor, and the scholarly pursuit of a broad liberal arts education, including the study of humanities and social sciences, is strongly recommended.

Selection Factors. Students are carefully selected on the basis of academic performance, letters of recommendation, MCAT scores, potential for professional achievement, and motivation and evidence of other personal qualities deemed essential for the study and practice of medicine. Applicants are considered without regard to race, age, sex, religion, national origin, state of residence, or physical handicap. Students who do not gain admission are discouraged from reapplying the subsequent year or until such time as they can present new data to warrant a more favorable decision.

The group of applicants for admission to the 1989 entering class had a mean GPA of 3.24. The accepted students presented credentials significantly above this average. Some other characteristics of the 1989 entering class were: *residence,* 20 states represented; *undergraduate colleges,* students came from 70 schools; *sex,* 38 percent women.

Receipt of the application will be acknowledged, and the applicant will be requested to submit letters of recommendation and the college application fee. A decision regarding a formal interview is made upon receipt of all supporting documents. Interviews are required of all applicants under serious consideration.

Financial Aid. Every attempt is made to assist students and their families in meeting both their financial obligations to the college and the student's essential personal needs. Financial status is not a determinant in selecting among qualified applicants. Awards and loans from the college are available after all other means of financial assistance have been exhausted. Financial aid applications are available only after acceptance. Advice on financial assistance and applications are available from the Student Finance Office. About 50 percent of the students receive institutional loans and/or scholarships, and about 75 percent of them qualify for outside loans and/or grants.

The application fee may be waived upon written request from the financial aid officer of the undergraduate college. It may be waived also upon a written request from the applicant after a fee waiver from AMCAS has been granted.

Information for Minorities. The College of Medicine is actively seeking and welcomes applications from minority students. Applicants requesting minority group consideration on the basis of ethnic background or financial status are evaluated by a subcommittee of the Committee on Admissions. A summer program in basic biomedical science and tutorial assistance in first- and second-year courses are available to all students.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $65
Oldest MCAT scores considered: 1977
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Jan. 1, 1991
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks until May 1, 1991; 1 week thereafter
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: June 1, 1991
Estimated number of new entrants: 176
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $18,060

Student fees: $625

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,498	2,374	3,872
New Entrants*	114	62	176

*100% took the MCAT and had baccalaureate degrees.

Columbia University
College of Physicians and Surgeons

Dr. Herbert Pardes, Vice President for Health Sciences and Dean, Faculty of Medicine
Dr. Andrew G. Frantz, Chairman, Committee on Admissions
Ellen Spilker, Director, Office of Student Affairs (Financial Aid)

Address inquiries to:
Columbia University
College of Physicians and Surgeons
Admissions Office, Room 1-416
630 West 168th Street
New York, New York 10032
(212) 305-3595

General Information. The College of Physicians and Surgeons originated in 1767 as the Medical Faculty of King's (later Columbia) College and was the first school to award an earned doctor of medicine degree in the American colonies. The college is now a part of the Columbia-Presbyterian Medical Center.

Clinical teaching is provided at the Medical Center; Harlem Hospital Center and the Roosevelt-St. Luke's Hospital Center in Manhattan; Bassett Hospital in Cooperstown, New York; and Morristown Memorial Hospital and Overlook Hospital in New Jersey.

University housing is available for unmarried and married students.

Curriculum. The first portion of the curriculum (three years) provides information and experiences considered essential for all physicians, regardless of their ultimate area of specialization. Teaching in small groups is emphasized. There are opportunities for patient contact in the first two years by elective courses as well as by regularly scheduled exercises. Students interested in research, aside from those enrolled in the M.D.-Ph.D. program, may pursue research projects in the interval between the first and second years as well as during the fourth year. The goals of the teaching program include the usual ones of providing the students with knowledge of and experience with the techniques that physicians are expected to master. In various courses and settings, instructors and students discuss the analysis of scientific evidence to equip students with some ability, beyond the use of statistical criteria, to evaluate the new developments certain to occur in the years after graduation. Also, the program is designed to inculcate the school's attitudes about patient care, which include the attitude that the patient is not simply a disease entity and is being improperly cared for if treated as one. The concept of the patient as a whole person is fostered by means of a variety of teaching experiences that attempt to instill a belief in the importance of developing a sensitivity to the total needs of a patient. Ethical problems are discussed in these teaching sessions. This aspect of the curriculum begins in the first year in a course entitled The Physician-Patient Relationship; it is taught with clinical faculty members serving as preceptors for relatively small groups of students. Further consideration of these topics occurs in a variety of settings in subsequent years.

In early July after the second year, students begin a full year of clerkships in which they participate in all of the clinical services. From July after the third year until graduation, the student follows an individually selected program of studies.

A great variety of elective courses is offered, including research electives and opportunities for study abroad. Courses may also be taken in other branches of the university. In cooperation with 14 of the university's departments and programs, an M.D.-Ph.D. program is offered for which a maximum of eight openings are usually available annually.

Courses are graded on the basis of honors, pass, and fail.

Requirements for Entrance. The MCAT and a minimum of three years of full-time study in an accredited college are required; four years are recommended. The undergraduate program must include the following courses:

	Years
Biology	1
Mammalian biology preferred.	
General chemistry	1
Organic chemistry	1
Physics	1
English	1

Applicants who have more than one of the required courses to complete are at a disadvantage in the competition for admission.

Admission is possible for all qualified applicants regardless of sex, race, age, religion, national origin, or handicap.

The area of undergraduate concentration is not an important selection factor.

Selection Factors. Admission is offered to those applicants who have given evidence that they are qualified to complete all of the curriculum requirements of the college and have shown the greatest promise that they are likely to graduate as ethical, compassionate, and competent physicians. Competence implies, in part, mastery of the scientific basis of medicine. Competence also requires mastery of the art of medicine for which certain personal qualities and attitudes are essential. These qualities and attitudes are evaluated by several means: the tenor of letters of recommendation, the nature of extracurricular and summer activities (assuming choice was not restricted by financial need), the breadth of the undergraduate education, and personal interview.

Each year some applicants are accepted who display extraordinary promise in regard to either the science or art of medicine, even though they do not meet, in optimal measure, all of the criteria described above.

Financial Aid. Financial aid is based solely on need and consists of scholarship awards and long-term loans. Accepted applicants, along with their parents, complete a financial aid questionnaire if aid is to be requested. An appropriately sized combination of scholarship money and loans is awarded in accordance with guidelines provided by the Financial Aid Office. Financial aid resources are equally available to the four classes.

The college cannot promise to meet fully the financial needs of students, although it makes every effort to do so. Its resources do provide aid for a substantial segment of the student body, however. About 68 percent of the students currently receive financial aid.

Information for Minorities. The college welcomes applications from qualified minority students. Members of minority groups constitute 20 percent of the Committee of Admissions. The evaluation it accords minority applicants is both experienced and, as with all applicants, highly individualized. Beyond three years of college and the required courses, the admissions criteria are, within limits, flexible for all applicants.

All students have the same educational program and equal access to resources for financial aid and tutorial assistance.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: June 15, 1990
  Latest date: Oct. 15, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1986
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Feb. 1, 1991
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 148
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $17,081

Student fees: $900

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	786	1,335	2,121
Applicants Interviewed	208	803	1,011
New Entrants*	57	91	148

*100% took the MCAT and had baccalaureate degrees.

Cornell University Medical College

Dr. G. Tom Shires, Dean
Dr. Gordon F. Fairclough, Jr., Associate Dean and Chairman, Committee on Admissions
Joan M. May, Assistant Dean for Financial Aid

Address inquiries to:
Office of Admissions
Cornell University Medical College
445 East 69th Street
New York, New York 10021
(212) 746-1067

General Information. Cornell University Medical College was established in 1898. Although the university is situated in Ithaca, the Medical College was opened in New York City to take advantage of the facilities of a large urban area. Clinical instruction is carried on in New York Hospital; Memorial Sloan-Kettering Cancer Center; the Hospital for Special Surgery; North Shore University Hospital on Long Island; the Catholic Medical Center of Brooklyn and Queens; the Burke Rehabilitation Center in White Plains, New York; Lenox Hill Hospital; St. Barnabas Hospital; and La Guardia Hospital.

Curriculum. The four-year curriculum at Cornell provides the foundation for a career in any area of medicine. Many Cornell alumni are engaged in academic and research work as well as in the clinical practice of medicine. Instruction is conducted in small groups whenever possible, using seminars, clinical tutorials, and special projects; interdisciplinary teaching is emphasized. Each student has a faculty adviser, who throughout the four years provides counseling and guidance. The elective program begins in the first year and provides for the development and expression of individual interests and talents.

The basic sciences are taught in the first two years. Clinical instruction begins in the first two years and includes the rudiments of physical diagnosis, interviewing technique, and social and emotional aspects of disease. Attendance to and participation in a weekly clinico-pathologic conference are required for second-year students. The third- year medical student functions as an important member of a clinical team composed of residents and attending staff in the affiliated hospitals of the medical center. The student encounters a wide spectrum of human disease while rotating through the clinical services of medicine, neurology, obstetrics and gynecology, pediatrics, psychiatry, public health, and surgery. In the fourth year, students can correlate the preceding experiences of medical school, begin to function effectively in the physician's role, and sharpen their clinical skills in preparation for residency training. The fourth-year curriculum remains largely elective. However, it includes a required advanced clinical clerkship and an ambulatory care experience. Performance is graded by an honors/pass/fail system supplemented by detailed faculty evaluations.

For students interested in teaching and research careers in the medical sciences, Cornell University Medical College offers two combined, fully funded M.D.-Ph.D. programs which are coordinated with the Cornell University Graduate School of Medical Sciences, Memorial Sloan-Kettering Cancer Center, and Rockefeller University. At this time, these fully funded programs only accept applications from incoming candidates. All applications are coordinated through the Office of Admissions. Applicants interested in applying to one or both of the programs should contact the Office of Admissions.

Requirements for Entrance. A minimum of three years in an accredited college and the MCAT are required; most students have completed four years of undergraduate work and hold a baccalaureate degree. The Committee on Admissions considers a strong foundation in the sciences a fundamental requirement but does not wish to establish rigid guidelines for admission. Therefore, other combinations of courses different from those listed below may be considered if they provide the applicant with a strong scientific background. For nonscience majors, at least two terms of biology beyond the introductory course are suggested. Cornell regards a broad liberal arts education as fundamental for the making of a good physician. The Committee on Admissions will review and evaluate achievement in the humanities and social sciences. The minimal requirements for admission are:

	Sem. hrs.
General biology or zoology	6
General chemistry	6
Organic chemistry	6
General physics	6
English	6

All required premedical courses should be completed no later than the end of January of the year for which admission is sought.

The MCAT is viewed by the Committee on Admissions as evidence of minimal academic competence and as a standardized test which allows appropriate comparisons.

Selection Factors. Students are selected for their leadership potential in various areas of medicine. There is an attempt to select the best qualified students from various academic, geographic, and social backgrounds. Maturity, stability, motivation, academic achievement, and other qualities are evaluated. Recent preparation for the study of medicine, particularly in the sciences, is preferred.

The fall 1989 entering class had the following characteristics: *sex,* 42 women; *mean science GPA,* 3.47; *average MCAT score,* 10.7 in each subtest; *minorities,* 15 students; *undergraduate major,* 73 percent in sciences.

Cornell University Medical College does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

Students who are unsuccessful in gaining acceptance to Cornell University Medical College are rarely successful on reapplication unless there has been substantial improvement in their qualifications.

Financial Aid. Admissions decisions are made without regard to financial need. Every effort is made to assist students to finance their medical education without incurring unreasonable debt. Substantial institutional grants and subsidized loans are available and are allocated according to need after an analysis of student and family resources. Sixty percent of the students receive Medical College support, and 80 percent receive grants or loans from some source. Since subsidized housing is available for all students at the Medical College, living costs and transportation expenses are reasonable. Fourth-year students receive research and teaching stipends to reduce their debts. The application fee will be waived if it represents a hardship to the applicant.

Information for Minorities. The Medical College makes a nationwide effort to enroll qualified minority group students.

Cornell conducts a research fellowship program for about 20 minority group premedical students during the summer between their junior and senior college years. The program consists of research activities with faculty members of the medical center and brief course work in cardiovascular physiology which provides a preview of the basic science years of medical school. The participants are housed in the medical students' residence.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Oct. 15, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1977
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1990
Estimated number of new entrants: 101 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $18,100

Student fees: $100

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,284	3,110	4,394
Applicants Interviewed	362	628	1,000
New Entrants*	51	50	101

*100% took the MCAT and had baccalaureate degrees.

Mount Sinai School of Medicine of the City University of New York

Dr. Nathan Kase, Dean
Dr. Barry Stimmel, Dean of Admissions, Academic and Student Affairs
Jay H. Cohen, Assistant Dean for Admissions and Student Affairs

Address inquiries to:
Office for Admissions
Mount Sinai School of Medicine
Annenberg Building, Room 5-04
One Gustave L. Levy Place-Box 1002
New York, New York 10029-6574
(212) 241-6696

General Information. Mount Sinai School of Medicine, an integral part of the Mount Sinai Medical Center, is privately endowed, coeducational, and nondenominational. Developed from the 135-year tradition of patient care, professional education, and research of the Mount Sinai Hospital, it enrolled its first students in 1968 and is officially affiliated with the City University of New York.

The Medical Center's 22 buildings include a hospital, numerous research and service laboratories, teaching facilities, the Postgraduate School of Medicine, and the Graduate School of Biological Sciences.

The Mount Sinai Hospital, a 1,300-bed facility with a clinical research center, constitutes the basic resource for clinical training. The school is also affiliated with the City Hospital Center at Elmhurst, Beth Israel Medical Center, Jewish Home and Hospital for the Aged, North General Hospital, and Bronx Veterans Administration Medical Center.

Curriculum. The curriculum of the School of Medicine represents a philosophy balancing the educational needs of the physician and integrating quantitative biology with clinical medicine. Provision is made for close integration of preclinical and clinical sciences and instruction in social aspects of disease and medical care.

The framework of the curriculum in the first two years includes a period of instruction in the language and principles of the basic sciences, followed by integrated interdepartmental teaching of organ systems or clinical disciplines, including early exposure to clinical medicine. The third year and part of the fourth year permit more intensive study of organ system diseases by means of rotation through various clinical disciplines. In addition to the extensive facilities of the Mount Sinai Hospital, the other four hospitals affiliated with the school are used for clinical teaching. The remainder of the fourth year is elective time.

The objective of the School of Medicine is to provide a climate that will stimulate individual development in research and clinical skills, emphasize creativity, strengthen a desire to extend the learning process for the entire life cycle, and foster the dedication of medical knowledge for the benefit of all.

Requirements for Entrance. A minimum of three years of college and the MCAT are required. Most students admitted have earned the bachelor's degree. The prospective student should have basic knowledge of the biological and physical sciences and mathematics, plus an appreciation of the social forces influencing man. Students majoring in nonscience disciplines who meet all admission requirements will be given consideration on an equal basis with those having specific scientific backgrounds.

Admission requirements include accredited college work in the following subjects:

	Years
Biology	1
Inorganic chemistry	1
Organic chemistry	1
Physics	1
Mathematics	1
English	1

Selection Factors. The school is keenly interested in a total appraisal of a student's potential for a career in medicine. Excellence in scholarship, personal maturity, integrity, intellectual creativity, and motivation for medicine are important factors. The interview is given considerable weight; premedical advisory committee letters of recommendation and MCAT scores are criteria for evaluation. All applicants, regardless of race, creed, sex, age, handicap, or national origin, are given serious and thorough consideration by the Admissions Committee.

Accepted students for the 1989 entering class had the following characteristics: *mean GPA*, 3.4 (95 percent above 3.0); *sex*, 47 percent women. Distribution of undergraduate major reflects the distribution in the applicant pool.

Financial Aid. It is the policy of the school to provide as much financial assistance as possible to students who require such assistance in order to maintain attendance. Students who are accepted for admission are provided financial assistance applications on which they may document their request for financial aid. Applications are treated confidentially, and awards are made by a faculty committee on financial aid. Each applicant is considered on an individual basis so that the greatest support for the most needy students can be distributed.

Financial aid may be offered in the form of a scholarship, a loan, or both, in accordance with the requirements of the individual situation and the availability of funds in the various categories. Over 80 percent of the students receive financial assistance; 66 percent receive direct institutional support.

Information for Educationally Disadvantaged. Strongly motivated students from educationally deprived backgrounds are actively sought and encouraged to apply. A pre-entrance summer program is available for students who are accepted to the freshman class. Tutorial assistance is available for all students.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1977
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Nov. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 115 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $16,000

Student fees: $750

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,095	1,144	2,239
Applicants Interviewed	372	386	758
New Entrants*	83	31	114

*100% took the MCAT and had baccalaureate degrees.

New York Medical College

Dr. Karl P. Adler, Dean
Dr. Edward J. Brownstein, Associate Dean and Chairman, Committee on Admissions
Anthony M. Sozzo, Assistant Dean and Director of Student Financial Aid

Address inquiries to:
Office of Admissions
Room 127, Sunshine Cottage
New York Medical College
Valhalla, New York 10595
(914) 993-4507

General Information. New York Medical College is an independent, privately endowed medical college which was chartered by the state of New York in 1860. The basic sciences are taught at the Westchester campus. A broad range of clinical facilities, which include municipal, county, federal, and voluntary hospitals as well as neighborhood and satellite clinics, is provided in Westchester County and surrounding areas.

Curriculum. The curriculum offers a wide range of educational experiences, varied patient populations and hospitals, and a diversified faculty. A combination of core and departmental curricula, emphasizing interdisciplinary teaching, is under constant supervision by the Education and Curriculum Committee composed of faculty and students.

The sciences basic to medicine are taught in the first two years. In the first year the curriculum includes anatomy, histology, biochemistry, physiology, neural sciences, and behavioral science. Time is available for optional selective courses—Introduction to Primary Care, Introduction to the Experimental Basis of Medicine, Clinical Medical Ethics, Substance Abuse, and Geriatric Medicine. The second year consists of microbiology, pharmacology, pathology/pathophysiology, and clinical skills. Summers after the first and second years are free. Clinical electives are available during summer following the first and second years in urban, suburban, and rural settings as well as opportunities to pursue research interests in basic science and clinical departments. The third year, which runs for a full calendar year, consists of clinical clerkships in medicine, surgery, obstetrics/gynecology, pediatrics, and psychiatry at affiliated teaching hospitals. In the fourth year there are three months of required clinical rotations, which include medicine (subinternship), neurology and rehabilitation medicine, and community and preventive medicine. The remaining five months are available for elective experiences which the students select with the counsel of their adviser and the dean of student affairs.

Requirements for Entrance. It is strongly recommended that the applicant successfully complete undergraduate college work leading to a baccalaureate degree from an accredited college of arts and sciences in the United States or Canada. All courses offered in satisfaction of the requirements for admission must be taken in or accepted as transfer credit by an accredited college in the United States or Canada and must be acceptable to that institution toward a baccalaureate degree in general arts or sciences. The Committee on Admissions has no preference for a major field of undergraduate study, but any college work submitted must include the specified credits below. Mature, well qualified students may be admitted after the completion of three years of undergraduate courses.

Each student's credentials must include:

	Sem. hrs.
Biology (with lab)	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
Physics (with lab)	8
English	6

All candidates are required to take the MCAT. This test is viewed by the Committee on Admissions as evidence of minimal academic competence and as a standardized test which allows appropriate comparisons. The MCAT must be taken prior to the application deadline of December 1.

Selection Factors. The Committee on Admissions' goal is to accept the students whom it feels are best qualified for the educational programs and hold promise of becoming outstanding graduates of the Medical College.

In addition to objective criteria, the evaluation of candidates includes subjective judgments, such as an assessment of their motivation, maturity, stability, responsibility, integrity, intellectual curiosity, and other factors deemed by the faculty to be essential to becoming an ethical, effective, and competent physician. The college strives to select students who have a deep respect for life, sense of honor, and dedication to the service of others.

In order to be considered seriously for admission, candidates must demonstrate academic accomplishment at the undergraduate level, including completion of all required course work. In addition, they must be of good moral character and possess the requisite sensory, cognitive, motor, and organizational skills, including the ability to synthesize and apply knowledge necessary to complete the entire curriculum satisfactorily.

No persons shall be denied admission to any educational program or activity on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race, creed, religion, national or ethnic origin, sex, age, or handicap.

Financial Aid. Financial aid is awarded to students in good standing based on the demonstration of financial need through the GAPSFAS form. All students seeking financial aid must file the GAPSFAS form and include parental income information with the College Scholarship Service. (See Chapter 6 for details.) The primary responsibility for financing a medical education lies with students and their families. However, the college provides information and services to assist in obtaining additional aid. These services include debt management, loan counseling, information regarding outside sources of financial aid, and management of resources while attending the Medical College. Approximately 82 percent of the student body receive some form of financial assistance. Emergency financial assistance is available. Students are discouraged from seeking outside employment during the academic year. All students will receive a financial aid packet of information upon acceptance to the Medical College.

Information for Educationally Disadvantaged. Strongly motivated students from educationally deprived backgrounds are actively sought and encouraged to apply. A pre-entrance summer program which provides an intensive review of basic science courses and an introduction to preclinical medicine is available to students. In addition, recruitment visits to colleges are conducted, and individual counseling for students interested in pursuing medical careers is provided.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due May 15, 1991; nonrefundable
Estimated number of new entrants: 175 (15 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $22,000

Student fees: $340

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,283	2,000	3,283
Applicants Interviewed	722	852	1,574
New Entrants*	126	52	178

*100% took the MCAT; 99% had baccalaureate degrees.

New York University School of Medicine

Dr. Saul J. Farber, Dean
Raymond J. Brienza, Assistant Dean for Admissions
and Director for Financial Aid

Address inquiries to:
Office of Admissions
New York University
School of Medicine
P.O. Box 1924
New York, New York 10016
(212) 340-5290

General Information. The New York University School of Medicine was founded in 1841 when it admitted a class of 239 students to a four-month course of lectures conducted by six professors on the faculty. The medical school is a constituent of New York University (NYU), one of the oldest and largest private universities in the United States.

Curriculum. Several changes in the curriculum in recent years have had the effect of restructuring teaching material in such a way as to bring out correlation among the basic science disciplines. A modern medical school curriculum may fall into three types: classical, core, and correlative. In the classical system there is a strong dependence on systematic and taxonomic approaches to teaching. In the core system, there is an emphasis on selected basic mechanisms. In the correlative system that NYU has evolved, there is a strong effort to bring into definable relationships various aspects of several disciplines. After two years in basic science, the NYU student serves in the third year on the hospital wards as a clinical clerk. In the fourth year students divide their time between elective programs of their own choosing and selective programs under faculty guidance.

Requirements for Entrance. The requirements for admission are: the MCAT, a minimum of three years of college work, and the following courses plus an acceptable concentration in any of these fields, or in any other field, at the college level:

	Sem. hrs.
Biology (with lab)	6
Inorganic chemistry (with lab)	6
Organic chemistry (with lab)	6
General physics (with lab)	6
English	6

Genetics and a course in embryology or developmental biology are recommended for students who select extra work in biology and have all options open to them as far as their college is concerned.

Biochemistry is recommended for all students.

It is strongly recommended that candidates complete their college work for the baccalaureate degree.

Applicants should take the MCAT in the spring of the year in which they are applying to medical school to achieve an earlier processing of their applications in the fall. In no case should the MCAT be taken later than fall of the application year.

Selection Factors. The selection process involves judging the applicant from several viewpoints, among them the following: excellence in course work at the college level; evaluation of the student by college instructors, premedical committees, and other similar mechanisms provided by the colleges; an interview at NYU; and the results of the MCAT. The Committee on Admissions does not computerize the candidate's profile in terms of MCAT scores and GPAs because qualitative considerations, such as college evaluation and interview impression, are also given great weight in the final evaluation. The Committee on Admissions does lend some weight to trends in the student's college progress. Students who may, for one reason or another, get off to a slow start in college and then show that they are capable of honors work in later years are given sympathetic consideration, regardless of GPAs.

The medical school's student body is drawn mainly from the eastern seaboard—a reflection of the composition of the applicant pool. Applications from outside the region are welcome. NYU is a private institution and has no geographical or other quotas. It should be noted, however, that foreign nationals who do not hold a permanent resident visa have only a slight chance of being admitted.

Women have constituted from 33 to 40 percent of recent entering classes. The acceptance rates for men and women are approximately the same.

Only those students who on the basis of application data appear to merit serious consideration for admission are interviewed.

Financial Aid. The Financial Aid Office reviews all applications for financial assistance.

The school's resources are drawn from scholarships and loan programs. Enrolled students and those students accepted for admission to the school are eligible to file applications for assistance. The School of Medicine participates in the Health Professions Student Loan Program and the Perkins Loan Program, which provide low-interest support for deserving students. Loans are also available through the New York Higher Education Assistance Corporation. New York State Tuition Assistance Program Awards are available to many residents of New York who are degree candidates.

Applicants requesting financial aid must file a GAPSFAS application. (See Chapter 6 for details.)

Information for Minorities. Minorities are welcomed into the school. Every effort is made in the case of all candidates, including minorities, to reach some determination on motivation, character, and capacities of the candidate, regardless of such standard measures as test scores and college performance. Considerable reliance is placed on the evaluation of students by their college teachers. This is particularly important in terms of the candidate's motivation under adverse circumstances. It is possible to have application fees waived in cases of demonstrated need.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: Aug. 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $60
Oldest MCAT scores considered: 1985
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Dec. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 1, 1991
Estimated number of new entrants: 135
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees: $18,230

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,769	592	2,361
Applicants Interviewed	666	223	889
New Entrants*	95	36	131

*100% took the MCAT; 99% had baccalaureate degrees.

University of Rochester
School of Medicine and Dentistry

Dr. Marshall A. Lichtman, Dean
Dr. Richard Satran, Associate Dean for Admissions
Robert J. Scrimgeour, Director of Admissions

Address inquiries to:
Director of Admissions
University of Rochester
School of Medicine and Dentistry
Medical Center Box 601
Rochester, New York 14642
(716) 275-4539

General Information. The School of Medicine and Dentistry was established in 1920 as an academic division of the University of Rochester, a privately endowed institution founded in 1850. The university was one of the first to combine a medical school and a teaching hospital within the same facility. The original medical center has expanded to include a modern medical education wing and the new Strong Memorial Hospital. Clinical teaching also is conducted at affiliated hospitals within the community. Opportunities for independent work include summer and full-year fellowships and a wide selection of elective offerings. More than half of the students elect participation in research.

Curriculum. During the first two years, the basic medical sciences are stressed, and students develop broad knowledge of human biology and behavior in health and illness. Programs include considerable interdisciplinary teaching and significant exposure to patients and clinical problems. Developing skills in problem solving and gaining an appreciation of principles are emphasized. From the beginning, students at Rochester learn to interact with patients; examine the biological, psychological, and social dimensions of health and illness; and develop the qualities important to becoming informed, caring, and dedicated physicians. A tutorial system and broad elective programs are offered.

At the start of the third year, in a unique interdepartmental course entitled General Clerkship, students learn the basic techniques of clinical medicine, including the interview, physical examination, and clinical laboratory methodology. Students complete basic departmental clerkships during the remainder of the third year. The fourth year is devoted to advanced clinical work in emergency and ambulatory care, selected medical specialties, and electives. Each student participates in a four- to six-week externship (subinternship) in one of the major clinical disciplines.

Individual tutoring and remedial work are available to all students in the school with special academic needs.

An M.D.-Ph.D. program is offered.

Greater flexibility in the admissions process has been established over the past several years through limited access plans developed in conjunction with either undergraduate or postbaccalaureate programs at several U.S. colleges. Under such plans, acceptance to the school (provisional acceptance in most cases) can be granted prior to the completion of preparatory study. Additional information is available upon request.

Requirements for Entrance. A minimum of three years of college is required; however, few students are accepted without the baccalaureate degree. The MCAT is not required. However, if the applicant has taken the test, the results should be sent to the Committee on Admissions for review.

College work must include:

	Sem. hrs.
Biology	6
General chemistry	6
Organic chemistry	6
Physics	6
English	6

The Committee on Admissions urges students to gain a broad, liberal education with emphasis on writing and communication skills.

Selection Factors. Evaluation of applicants includes a careful examination of the entire academic record, letters of recommendation, and the candidate's personal statement. Candidates who show particular promise of achievement are invited for interviews at the school.

Demonstrated excellence in a demanding academic program, including a high level of achievement in the natural sciences, is an absolute requirement for acceptance. Evidence of intrinsic intellectual drive and curiosity is highly valued since the program at Rochester emphasizes independent opportunities for individual students. Particular attention is given to achievements that demonstrate breadth and commitment. The school is characterized by an atmosphere in which students and faculty work closely together towards the attainment of knowledge and understanding and in which patients are treated with compassion and sensitivity. Students are sought who will contribute to this climate for learning.

Selections are made without regard to sex, race, religion, national origin, age, or handicap. Well qualified applicants from all parts of the United States are encouraged to apply. State residency is not a factor in selection.

Applications are accepted from U.S. citizens and from permanent residents who have completed at least two years of undergraduate college study in the United States.

Students who have been unsuccessful in gaining admission to the medical school are discouraged from reapplying unless their qualifications have been significantly improved.

Financial Aid. The medical school offers scholarships and long-term loans to those students who demonstrate financial need. Decisions concerning admission are made independently of financial circumstances.

In 1989-90, over 75 percent of the enrolled students received financial assistance from either school or noninstitutional sources. Entering students applying for any financial aid are required to provide a GAPSFAS needs analysis (see Chapter 6) and the School of Medicine's financial aid application. These are distributed to all interviewed applicants in early January.

Information for Minorities. The Office of Minority Affairs represents a serious commitment on the part of the University of Rochester School of Medicine and Dentistry to meet the urgent need for minority physicians in all aspects of the medical profession. An active recruitment program seeks applicants for both the M.D. and M.D.-Ph.D. programs.

The Summer Research Fellowship (SURF) Program is designed to provide minority undergraduates with a 9- to 10-week exposure to the research and clinical areas. Rising seniors in the program are urged to apply to medical or graduate school during this time. Early interviews, in addition to informational meetings with admissions, financial aid, and other pertinent areas, provide students with valuable information required for medical school application.

Application and Acceptance Policies for 1991-92 First-Year Class

Filing of application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $50
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Nov. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 96
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $16,800

Student fees: $837

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	751	990	1,741
Applicants Interviewed	284	299	583
New Entrants*	49	47	96

*71% took the MCAT; 100% had baccalaureate degrees.

State University of New York Health Science Center at Brooklyn College of Medicine

Dr. Laurence Finberg, Dean
Anne L. Berg, Director of Admissions
Paulette Pittman, Financial Aid Officer

Address inquiries to:
Director of Admissions
State University of New York
Health Science Center at Brooklyn
450 Clarkson Avenue-Box 60M
Brooklyn, New York 11203
(718) 270-2737

General Information. The College of Medicine had its origin in 1860 as the Teaching Division of the Long Island College Hospital and merged with the State University of New York (SUNY) in 1950, becoming the first unit of the Downstate Medical Center. In 1986 the name of the medical center was changed to the Health Science Center at Brooklyn. The 350-bed State University Hospital opened in 1966. In addition to its own hospital, the Health Science Center is affiliated with 12 other community hospitals.

Curriculum. A four-year program is offered with the first two years consisting primarily of basic sciences. During the second year the student is introduced to clinical medicine through a course in preparation for clinical medicine and laboratory medicine. Correlation between basic science information and clinical disease is presented throughout the first two years. One afternoon per week is available for elective work during the first two years.

The third year consists of six basic departmental clerkships. Twenty weeks of the fourth year are available for elective experiences.

All courses are graded satisfactory, unsatisfactory, or honors.

A combined M.D.-Ph.D. program is available. Only students who have been accepted to the medical school will be considered for this program.

The Brooklyn College B.A.-M.D. Program is a seven-year combined-degree program offered by SUNY-Brooklyn in collaboration with Brooklyn College. An early decision program is available for applicants to the B.A.-M.D. program. Information is available from the admissions offices of both institutions.

Requirements for Entrance. The MCAT and three years of college are required. Applicants with a bachelor's degree are preferred. Course requirements are:

	Sem. hrs.
General biology or zoology (with lab)	6
Inorganic chemistry (with lab)	6
Organic chemistry (with lab)	6
General physics (with lab)	6
English	6

If freshman English is exempted, a more advanced course is required.

College courses should be chosen with a view toward obtaining a broad educational background. In selecting a major the student should be strongly influenced by personal inclinations. Applicants are strongly urged to take the MCAT in the spring of the year of application and to complete the required premedical courses at the time of application.

Selection Factors. The Committee on Admissions endeavors to consider the total qualifications of each applicant without regard to race, sex, creed, national origin, age, or handicap. Decisions are based on college records, letters of recommendation, MCAT scores, and impressions at the time of inter view. All interviews are conducted at the College of Medicine. If the MCAT is not given in New York State, the test will not be required.

New York State residents receive preference. Foreign nationals must have permanent resident status in the United States in order to be considered for admission. Minority students, especially those in the tri-state area, are encouraged to apply.

Accepted students for the 1989 entering class had the following characteristics: *mean science GPA,* 3.18; *mean total GPA,* 3.28; *mean MCAT scores, B*-9.6, *C*-9.2, *P*-9.3, *SP*-9.2, *SA:R*-8.2, *SA:Q*-8.0; *sex,* 40 percent women; *residence,* 9 percent nonresidents.

All applications must be submitted through AMCAS. Applicants who are reapplying must submit a new AMCAS application.

Financial Aid. Any student offered acceptance to the college may apply for financial assistance. To apply, applicants along with their parents complete a College of Medicine financial aid application and the

Financial Aid Form (FAF) administered through the College Scholarship Service (see Chapter 6). An aid information packet is sent to all accepted applicants.

Awards generally consist of loans and some scholarships. Under New York State's current scholarship program, tuition for residents may be substantially reduced in relation to financial need. In addition many residents are also eligible to receive Tuition Assistance Program awards.

Students' financial aid needs are reviewed annually, and awards for each year reflect the current financial situation of students and their families. The financial aid officer will assist all students in identifying funds necessary to finance a medical education at the College of Medicine.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100 due with response to acceptance offer; refundable upon request prior to July 1, 1991
Estimated number of new entrants: 200
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $5,550
  Nonresident: $12,950

Student fees: $120

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,799	727	2,526
Applicants Interviewed	535	65	600
New Entrants*	188	14	202

*100% took the MCAT; 95% had baccalaureate degrees.

State University of New York at Buffalo
School of Medicine and Biomedical Sciences

Dr. John Naughton, Vice President for
Clinical Affairs and Dean
Dr. Thomas J. Guttuso, Assistant Dean and
Director of Medical School Admissions
Michael D. Randall, Director, Student Finances and Records

Address inquiries to:
Office of Medical Admissions
Farber Hall
Room 138
State University of New York at Buffalo
Buffalo, New York 14214
(716) 831-3466

General Information. The School of Medicine was founded by Millard Filmore and a group of physicians in 1846. It was a privately supported school until the University of Buffalo joined the State University of New York (SUNY) system in 1962. The preclinical campus and library are located on the Main Street Campus at the northeastern corner of the city. The clinical education program is conducted in cooperation with nine area hospitals.

Curriculum. The first-year courses consider normal structure and function and development of the human body and mind. The health care system is also studied. The curriculum provides a basic core supplemented by elective opportunities. A selective program designed to provide learning opportunities in socially important areas is included. Clinical training is emphasized and begins in the first year with students assigned to a preceptor for exposure to clinical medicine. The second year introduces the student to abnormality and the treatment of disease. Epidemiology, biostatistics, and clinical biophysics are also offered. Clinical training continues with the learning of physical diagnosis in small groups in a hospital setting. Also, students are assigned to a family practitioner—one on one—for experience in a private office. The third year includes clerkship experiences in internal medicine, surgery, pediatrics, obstetrics and gynecology, psychiatry, and surgical specialties, family medicine, or neurology. In addition, a one-week course with emphasis on integration of basic science and clinical knowledge is selected from among a number offered. The fourth year is individually planned under faculty supervision and includes required experiences in primary ambulatory care, inpatient medicine, and neurology in addition to five electives. The grading system in the first two years utilizes honors, satisfactory, and unsatisfactory grades. In the third and fourth years, a grade of high satisfactory is also used.

An accelerated track leading to an M.D. degree in three years is limited to a small number of students who apply after their first semester. Summer programs prior to the first year and following both the first and second years are offered for students who either require or desire a decelerated pace or wish to enrich their programs through clinical or research pursuits. The Medical Scientist Training Program (MSTP), normally a seven-year program, combines the training for M.D. and Ph.D. degrees. It is designed to prepare a limited number of students for careers in biomedical science. Interested applicants should request a supplemental MSTP application form.

Requirements for Entrance. The MCAT is required and should be taken no later than the fall of the year preceding admission. A bachelor's degree from an approved college or university is desired, although in exceptional cases students will be admitted after three years of undergraduate studies. All prerequisites must be completed prior to enrollment. The minimal premedical course requirements are:

	Semesters
Biology (with lab)	2
With not more than one semester of botany.	
Chemistry (with lab)	3
At least one semester must be organic chemistry with lab.	
General physics	2
English	2

The choice of undergraduate concentration is optional. The prerequisites for admission reflect the need for a basic preparation in the sciences and are meant to encourage the student to develop a foundation in the social sciences and the humanities.

Early Assurance Program. Undergraduate sophomores can apply to this program if they have a 3.5 GPA in science and nonscience and have completed at least half of the premedical course requirements. Application deadline is February 1, 1991. Submission of SAT scores is required. Accepted candidates are not required to take the MCAT, are encouraged to pursue their intellectual interests in their remaining college years, and will commence their medical education in August 1993.

Selection Factors. The Admissions Committee seeks to identify and select students who display favorable qualities deemed important for the pursuit of a career in medicine. In making its assessments and determinations, the committee relies on information contained in the application and in documents submitted in support of the applicant. Based on careful screening, applicants are invited to appear for an interview. Reapplications are treated no differently than initial applications. Rejected applicants should seek the advice and counsel of their premedical adviser.

Students are accepted without regard to race, sex, creed, national origin, age, or handicap. Preference is given to qualified residents of New York State. Applications are not accepted from foreign nationals. Permanent residents must have completed at least two full years or 60 credit hours of higher education in the United States or Canada.

Financial Aid. The Financial Aid Form (FAF) should be received at the College Scholarship Service (see Chapter 6) by March 15, 1991, for all students applying to the 1991 entering class. FAFs received after the deadline are subject to funds available. Requests for financial aid are considered after admission, and awards are made based on the student's need as estimated by the university's Office of Financial Aid and the College Scholarship Service. It is expected that where resources are available, parents will assume financial responsibility for the student's education. In all financial aid requests, parental income information is required regardless of dependency status. All financial aid is need based. A limited number of scholarships based on academic merit are provided each year.

Information for Minorities. Through the Health Careers Opportunity Program, a Summer Enrichment and Support Program is available to facilitate students' retention in medical school. The Enrichment Program, designed for first-year educationally and socioeconomically disadvantaged students admitted to SUNY-Buffalo, offers histology/ embryology, introduction to gross anatomy, and biochemistry; a preceptorship program; and learning skills development. The program begins June 1 and runs through July. Accepted students who matriculate in this program are considered officially enrolled in medical school. An eight-week residential summer program in microbiology is designed to provide second-year minority and disadvantaged students a headstart on the second-year medical curriculum. Tutorial and counseling services are offered during the summer and throughout the academic year. Preparation for Part I and Part II of the NBME examinations is also available. The School of Medicine has a strong retention program; however, each student must meet the academic standards established by the faculty.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1978
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 1, 1990
Estimated number of new entrants: 135
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $5,550
  Nonresident: $12,950
Student fees: $140

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,774	443	2,217
Applicants Interviewed	475	28	503
New Entrants*	132	3	135

*100% took the MCAT and had baccalaureate degrees.

State University of New York at Stony Brook Health Sciences Center School of Medicine

Dr. Jordan J. Cohen, Dean
Debra Gillers, Associate Dean and Director of Admissions
Dr. Aldustus E. Jordan, Associate Dean and Financial Aid Officer

Address inquiries to:
Committee on Admissions
Level 4, Room 046
State University of New York at Stony Brook
Health Sciences Center
School of Medicine
Stony Brook, New York 11794-8434
(516) 444-2113

General Information. The State University of New York (SUNY) at Stony Brook School of Medicine accepted its first class in 1971. It is part of the SUNY-Stony Brook Health Sciences Center which includes the new 540-bed University Hospital.

Curriculum. The curriculum of the School of Medicine is designed to provide the opportunity for extensive training in the basic medical sciences and teaching in the clinical disciplines of medicine. The curriculum requires the acquisition and utilization of a variety of skills in basic and clinical sciences. The faculty has determined that a successful candidate for the M.D. degree must pass each unit of curriculum and that waiver of units of curriculum is offered only to those who because of prior experience are able to place out through examination. The grading system is honors/pass/ fail.

The first year of the curriculum consists of thorough instruction in the basic sciences and introductions to clinical skills and to the concepts of community medicine. Following this introductory year, the students are given an integrated presentation of pathophysiology organized by systems with selected clinical exposure.

On completion of the systems program, students move to a series of clinical clerkships in medicine, surgery, pediatrics, obstetrics and gynecology, psychiatry, and family medicine, where opportunities for problem solving and patient responsibility are presented. Clinical teaching in the Introduction to Clinical Medicine course, in the systems program, and in the clinical clerkships takes place at the University Hospital and various clinical facilities affiliated with the School of Medicine. The clerkship program is followed by selectives and electives in the fourth year. The curriculum emphasizes social issues in medicine and bioethics at each level of medical training.

In addition, a four-year program leading to the M.D. with "Distinction in Research" and a six- to seven-year M.D.-Ph.D. program are available.

Requirements for Entrance. In anticipation that both the spring and fall administrations of the MCAT will be offered in the state of New York and that official test scores will be forwarded to New York schools, candidates for admission to the 1991 entering class are required to take the MCAT no later than fall 1990 and have official scores sent to SUNY-Stony Brook. Because of the rigorous competition, candidates are advised to submit applications early in the application period. All applications must be submitted through AMCAS. Prospective applicants should be aware that those who successfully applied to us in the past represent an exceptional, able, and diverse group.

Specific minimum course requirements are:

	Years
Biology (with lab)	1
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
Physics (with lab)	1
English	1

This minimum of preparation should be completed prior to filing the application. The Committee on Admissions makes a careful examination of the candidate's preparation and promise for creative work in medicine, regardless of the area of concentration prior to medical school. It is expected that each student admitted will be capable of completing the full curriculum of required courses and electives under the established policies.

The school is committed to giving all applicants the individualized attention that they merit.

Selection Factors. Grades, MCAT scores, letters of evaluation, and extracurricular and work experiences are carefully examined. Motivational and personal characteristics as indicated in the application, letters of evaluation, and a personal interview are also a major part of the admissions assessment. There is no discrimination in the admissions review and selection process on the basis of sex, race, religion, national origin, age, marital status, or handicap.

Students learn from each other as well as from their teachers, their textbooks, and their patients; therefore, the school attempts to acquire a student body representative of a variety of backgrounds, experience, and academic interests. SUNY-Stony Brook hopes to attract a significant representation of groups that have historically been underrepresented in medicine. Applicants from foreign schools must have completed at least one year in an American college or university. Residents of New York constitute the majority of the applicants and entrants; however, applications for the M.D.-Ph.D. program are encouraged from both in-state and out-of-state applicants.

Required supporting documentation includes official transcripts of all college work and a letter of official evaluation from the applicant's premedical adviser (or, when no adviser exists at the applicant's college, from two instructors, one of whom must be from a science field). No other letters are solicited; however, if there are other individuals who also may be in a position to provide important information, the school would be happy to receive letters from them. Personal interviews will be arranged at the initiative of the school for candidates who appear to be serious contenders for admission. SUNY-Stony Brook has adopted the Technical Standards endorsed by the AAMC and published in this edition.

Financial Aid. SUNY-Stony Brook participates in all financial aid programs available at the medical schools of the SUNY system. Financial aid and counseling are available through the Office of Student Affairs, as is assistance in securing housing and employment and in meeting other personal needs. On-campus housing is available. Students are advised to have transportation available because there is no public transportation to the outlying clinical facilities.

Information for Minorities. SUNY-Stony Brook invites applications from members of groups that have been historically underrepresented in medicine, and the school makes a detailed review of these applications.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $50
Any MCAT score is considered
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 15 days unless otherwise specified
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 100 (10 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $5,550
  Nonresident: $12,950

Student fees: $120

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	*	*	2,501
Applicants Interviewed	*	*	750
New Entrants†	98	2	100

*Data not available.
†100% took the MCAT and had baccalaureate degrees.

State University of New York Health Science Center at Syracuse College of Medicine

Dr. Irwin M. Weiner, Dean, College of Medicine
A. Geno Andreatta, Dean, Admissions
and Student Affairs
Irvin Bodofsky, Director of Financial Aid

Address inquiries to:
Admissions Committee
State University of New York
Health Science Center at Syracuse
College of Medicine
155 Elizabeth Blackwell Street
Syracuse, New York 13210
(315) 464-4570

General Information. The Health Science Center at Syracuse's College of Medicine was established in 1834 as the Geneva Medical College. The college joined Syracuse University in 1872 and was transferred to the State University of New York (SUNY) in 1950 as the Upstate Medical Center. In 1986 its name was officially changed to the Health Science Center at Syracuse to reflect more accurately its broad and diverse mission in medical care and research, nursing, health professional training, and graduate education.

Curriculum. The medical education program is designed in three phases. During the first phase, students directly explore the normal structure, function, and systemic processes of the human body. In the second phase, students develop an understanding of the nature and progression of disease, the interaction and response of the human host to microorganisms, the principles of human behavior, and pharmacology. Interviewing and counseling skills, physical diagnosis, ethics, law, and economic issues also are addressed throughout the second phase. During the third phase, the students apply the principles of basic science to clinical problem-solving. Clinical clerkships in pediatrics, medicine, surgery, obstetrics/gynecology, psychiatry, and radiology constitute the core of this phase. Clerkships in subspecialty services are required for all students. Thereafter, each student has the opportunity to attain their individual educational objectives during 26 weeks of available elective time.

The Health Science Center's clinical campus at Binghamton provides a core curriculum with programs in internal medicine, growth and development, perinatology, child and adolescent health, geriatrics, ambulatory surgery, neuropsychiatry, and continuity of care. A community orientation fosters a close working relationship between the campus and practicing physicians and other health care professionals.

Students who wish to develop skills in research may elect a special course of study. After selecting a project adviser, these students spend the first two summers as well as elective time on an independent research project.

Early assurance and deferred matriculation programs are available for qualified candidates who wish to pursue an individualized in- depth study of their choice during their baccalaureate years. The early assurance program requires a cooperative agreement between the college or university and the Health Science Center for the student to participate.

A cooperative program which offers the opportunity to complete an M.B.A. degree while attaining the M.D. degree is available through the School of Management at SUNY at Binghamton.

An extended program under which the first two academic phases are spread over three years is available upon request and approval.

A modified pass/fail grading system is used; however, students may earn honors for outstanding performance in their courses.

Requirements for Entrance. Admissions preference is given to New York State residents. However, some out-of-state applicants are admitted each year. Applications are accepted from U.S. citizens and from permanent residents who have completed at least three years of college study (90 semester hours) in the United States or Canada in an accredited institution of higher education. Applicants from foreign schools must complete at least one year of study in an accredited American or Canadian college or university prior to application and demonstrate competency in English composition and expression. Preference is also given to those applicants who have completed the courses required for admission at the time of application. Reapplicants are discouraged unless their qualifications have significantly improved.

The MCAT and satisfactory completion of the following courses are required:

	Sem. hrs.
Chemistry	8–12
Inorganic (with lab)	(4–6)
Organic (with lab)	(4–6)
Biology or zoology (with lab)	6–8
Physics (with lab)	6–8
English	6

Choice of major should be determined by the student's chief interests. Achieving excellence in the basic sciences is essential; however, academic work in the humanities and social sciences is equally important, as are meaningful experiences in relating to people.

Selection Factors. The Admissions Committee endeavors to take into consideration as much information as possible that delineates an applicant's total qualifications for the study and practice of medicine, without regard to race, creed, religion, national origin, age, sex, marital status, or degree of physical handicap. Several application forms are used in the medical school admission process. Each form collects information appropriate to the program an applicant may be seeking. Preadmission inquiries which relate to gender, age, ethnicity, veteran status, or other characteristics are collected for statistical purposes only. This information has no bearing on the selection process or final decisions regarding admission to the college.

Major factors in selection of applicants include: review of college records, which include scholastic aptitude and science aptitude; MCAT scores; letters of recommendation from premedical advisory committees; communication skills; character; motivation; and an evaluation of the personal interview.

Financial Aid. Accepted applicants are eligible to apply for financial aid to the Office of Admissions and Student Affairs. Financial need is determined by the ACT needs analysis system (see Chapter 6). The Financial Aids Committee generally makes awards in July. The major portion of financial aid for each student is in loans. Scholarships are not readily available except for those state residents who qualify for the Tuition Assistance Program Awards.

Information for Minorities. The SUNY Health Science Center at Syracuse is committed to making student enrollment reflective of the diverse population in New York State. Underrepresented minorities and disadvantaged students are actively sought and are eligible for special assistance in the entry and retention programs of Project 90, which includes both a matriculation summer program and an extended curriculum. Premed counseling, application fee waivers, and off-campus interview programs are available. Program descriptions and further information can be obtained from either the Admissions Office or the Office of Minority Affairs.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1982
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1989
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 150 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $5,550
  Nonresident: $12,950

Student fees: $90

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,836	531	2,367
Applicants Interviewed	631	60	691
New Entrants*	142	7	149

*100% took the MCAT and had baccalaureate degrees.

Bowman Gray School of Medicine of Wake Forest University

Dr. Richard Janeway, Vice President for Health Affairs and Executive Dean
Dr. Lewis H. Nelson, Associate Dean for Admissions
Larry Stombaugh, Financial Aid Director

Address inquiries to:
Office of Medical School Admissions
Bowman Gray School of Medicine
of Wake Forest University
300 South Hawthorne Road
Winston-Salem, North Carolina 27103
(919) 748-4264

General Information. The School of Medicine was established in 1902 at Wake Forest, North Carolina, and of the then existing 166 medical schools, it was one of 11 that required college preparation. It was renamed the Bowman Gray School of Medicine in 1941 when the school was moved to Winston-Salem, becoming the second four-year school in the state. Patient care, research, and community service remain the threefold mission of the school as part of the Wake Forest Medical Center.

The main teaching hospital of the medical school is North Carolina Baptist Hospitals, Inc. (806 beds). Affiliated institutions include the 896-bed Forsyth Memorial Hospital, Kate Bitting Reynolds Health Center, and Northwest Area Health Education Center.

Curriculum. During the first semester of the first year, morphology, including gross anatomy and histology, and biochemistry are taught in unit courses and correlated with clinical problems. Factors contributing to the doctor-patient relationship are stressed in behavioral sciences. Microbiology, physiology, and some aspects of community medicine are also presented during the first year. Offered in the second and third years are introduction to medicine: an integrated course in physiology, pharmacology, and pathology; introduction to history-taking and physical diagnosis; and clinical clerkships. The fourth year consists of 11 four-week rotations: two are in community medicine; three are in basic clinical fields—medicine, surgery, pediatrics, or obstetrics/gynecology; and the remainder are elective. Performance is evaluated on a zero to four scale.

In 1987, a small number of students were admitted to the new four-year Parallel Curriculum. Course content parallels the traditional tracks but is problem-based rather than discipline-oriented. Using the case study method, small-group student tutorials led by faculty members address both basic and clinical sciences. Participation is voluntary, and the emphasis is upon independent, self-directed learning to develop sound clinical reasoning and problem-solving skills.

Early Assurance Program (EAP). Well qualified students who will achieve North Carolina residency status by the time of matriculation into medical school and who have completed their sophomore year in an accredited U.S. college may apply for acceptance to the entering class that follows completion of their baccalaureate program, that is, the class beginning about two years from application. To be eligible, a student must have obtained an overall GPA of 3.5 and a minimum science GPA of 3.4 and must have completed at least half of the required prerequisites. Certain other studies should also have been completed in order to provide an assessment of the applicant's abilities. The MCAT will not be required. However, the applicant may be requested to take the MCAT before matriculation to provide statistical information.

Students must apply during their junior year and before the November 1 deadline through the AMCAS process indicating the desire to be considered for the EAP. A final decision will be made by mid-April. The applicant must agree to complete requisite courses, to continue to excel academically, to demonstrate high ethical conduct, and not to apply to any other medical school. Failure to be accepted through the EAP does not prevent or bias future application to this or a later entering class. The EAP should not be confused with the Early Decision Program.

Requirements for Entrance. The MCAT is required except for EAP. The minimum requirement for admission is 90 semester hours of college work, although most candidates would benefit from a well rounded four-year college curriculum. Required courses should be completed by the time of application. Generally, prerequisites are:

	Sem. hrs.
General biology	8
General or inorganic chemistry	8
Organic chemistry	8
General physics	8

Biochemistry, zoology, English, social and behavioral sciences, and studies in humanities and computer are strongly recommended.

Selection Factors. Candidates are selected on the basis of the quality of their academic records, the MCAT scores, comments of instructors, impressions gained at the time of personal interviews, and general qualifications. Although North Carolina residents compose the majority of the class (50 to 60 percent), nonresidents are given equal and careful consideration. Applicants for admission are considered primarily on academic and personal qualifications. There are no restrictions because of race, creed, sex, religion, age, physical handicap, marital status, or national origin. Early application is urged because of the large volume of applications.

The Committee on Applications will evaluate each application. Applicants whose performance suggests they would have difficulty in handling the curriculum are notified. All other applicants are sent a supplemental application packet, which requires a $40 processing fee, and are asked to furnish letters of evaluation from their premedical advisory committees or from individuals. Only applicants who have completed files are considered for interviews. Candidates are invited for local interviews at the discretion of the Committee on Admissions. No regional interviews are conducted.

Students in the 1989 entering class represented 21 states and attended 50 colleges and universities. Some characteristics of the class were: *sex*, 35 percent women; *overall acceptance rate*, 49 percent of all interviewed applicants, with 254 acceptances offered to fill the class of 108.

Financial Aid. Financial aid is awarded to students on the basis of need and academic standing. All students duly enrolled and in good standing are eligible for loans. Special state and institutional funds are available for scholarships and loans to residents of North Carolina. Eighty-five percent of the student body receive financial assistance. Students are discouraged from seeking part-time employment.

Information for Minorities. The Office of Minority Affairs actively recruits minority students and has developed summer enrichment academic reinforcement, tutorial, and counseling services for enrolled students. Address inquiries to the Office of Minority Affairs.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $40
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: October 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: April 15, 1991

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 108 (10 EDP)
Starting date: Aug. 1991

Tuition per Year for 1989–90 First-Year Class

Tuition and student fees: $12,000

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	377	2,306	2,683
Applicants Interviewed	199	324	523
New Entrants*	62	46	108

*100% took the MCAT and had baccalaureate degrees:

Duke University
School of Medicine

Dr. Doyle G. Graham, Dean, Medcial Education
Dr. Lois A. Pounds, Associate Dean,
Director of Admissions
Nell Andrews, Financial Aid Administrator

Address inquiries to:
Committee on Admissions
Duke University
School of Medicine
Duke University Medical Center
P.O. Box 3710
Durham, North Carolina 27710
(919) 684-2985

General Information. The Duke University Medical Center is located on the campus of Duke University in Durham, North Carolina. A hospital was opened for patients in July 1930, and the first medical students were admitted in October of that year. The first doctor of medicine degrees were conferred in June 1932. Duke Hospital (1,000 beds) is supplemented by the Durham Veterans Administration Hospital (489 beds) for clinical teaching. Apartments for medical students are available one block from Duke Hospital.

Curriculum. The curriculum has been designed to provide the flexibility to encompass the rapid expansion of medical knowledge as well as the broad range of individual student interests and talents. First-year students receive instruction in the basic science principles of modern medicine. The second year is an introduction to the clinical sciences. The third and fourth years are elective; and with the guidance of an advisory dean and several senior faculty advisers, students design their programs. The content of these two years include half basic science and half clinical course work. In the third year each student may participate in a research project to learn not only how to do research, but how to critically evaluate the research of others. Having completed the required courses in the first and second years, students may explore relevant areas of basic science in more depth and compliment their first-year acquisition of science knowledge. In the fourth year, clinical courses may be elected to enhance general medical education in more depth and breadth.

The Medical Scientist Training Program is designed to provide both the M.D. and Ph.D. degrees over a six- to seven-year period of study. The first two years are spent in the medical school program, followed by a three- to four-year period of graduate study. Upon completion of the Ph.D. degree, the last year is spent in the clinical sciences. It is expected that candidates for this combined degree plan to have careers in academic medicine.

Other combined-degree programs include law (M.D.-J.D.), medical history (M.D.-M.A. and M.D.-Ph.D.), public policy sciences (M.D.-M.A.), public health (M.D.-M.P.H.), and health administration (M.D.-M.H.A.).

Requirements for Entrance. The MCAT and three years of college are required. A minimum of 90 semester hours of approved college credit is also required. Course work must include:

	Years
Biology	1
Inorganic chemistry	1
Organic chemistry	1
General physics	1
Calculus	1
English	1

An introductory course in biochemistry is suggested during the senior year.

Premedical students should be aware of the importance of a well rounded general education as a preparation for the study of medicine and not limit themselves to scientific courses. The Committee on Admissions places more importance on the way applicants handle their undergraduate work than on the subject matter taken.

Selection Factors. The selection of students is based upon the quality rather than the quantity of preparation and upon demonstrated evidence of personal attributes of intelligence, character, and general fitness for the study and practice of medicine. In considering an applicant, many sources of information may be consulted: curricular and extracurricular college record; fitness as reflected by carefully prepared, confidential appraisals by teachers who know the individual well; MCAT scores; and the applicant's showing in the interview which is held with members of the Committee on Admissions or one of its regional representatives. Extracurricular activities are of particular interest in evaluating the official college transcript.

Accepted students for the 1989 entering class had high GPAs. However, other factors were considered as mentioned above. Special consideration is given to residents of North Carolina. There were 30 women in the 1989 entering class. The Committee on Admissions does not discriminate on the basis of race, sex, sexual preference, creed, age, handicap or national origin.

Financial Aid. The first $5,000 of need is met with the Stafford Student Loan (SSL), formerly the Guaranteed Student Loan. The remaining need is then met with half institutional grant and half institutional low-interest loan, in amounts up to total school-approved costs, depending on applicant's documented financial need. Each applicant obtains the full SSL before school loans are packaged. GAPSFAS serves as the basis for determining an applicant's resources (see Chapter 6). Part-time employment is discouraged. The financial circumstance of an applicant has no bearing on the admission process.

Several four-year merit scholarships are awarded each year. Selection is determined on the basis of academic excellence by the Scholarship Committee.

Several four-year Dean's Tuition Scholarships for minority students are awarded each year by the Scholarship Committee on the basis of candidates' academic credentials.

North Carolinians' need up to $10,000 is met with a special grant package followed by the package described above to meet additional need.

Financially needy disadvantaged and minority students selected for the North Carolina Board of Governors Medical Scholarship receive full tuition, fees, and a stipend.

Medical Scientist Training Program recipients receive full tuition, fees, and a stipend.

A wide variety of employment opportunities are available for the student's spouse at Duke University and its Medical Center and the nearby, rapidly expanding Research Triangle Park.

Approximately 62 percent of the student body receive financial assistance.

Information for Minorities. Minority medical students have access to a dean/faculty/student group which supports freshman students and meets regularly to discuss common issues pertinent to minority student experience.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Oct. 15, 1990
School application fee: $55
Oldest MCAT scores considered: 1986
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Dec. 1990
  Latest date: March 1991

Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $50, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 100
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $13,100

Student fees: $655

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	289	4,256	4,545
Applicants Interviewed	*	*	753
New Entrants†	26	77	103

*Data not available.

†100% took the MCAT and had baccalaureate degrees.

East Carolina University School of Medicine

Dr. James A. Hallock, Dean
Dr. Dean H. Hayek, Associate Dean for Admissions
Holly C. Harris, Director, Medical Student Financial Assistance

Address inquiries to:
Associate Dean
Office of Admissions
East Carolina University
School of Medicine
Greenville, North Carolina 27858-4354
(919) 551-2202

General Information. In 1972 East Carolina University enrolled students in the First-Year Program in Medical Education. The Board of Governors of the University of North Carolina system and the General Assembly of North Carolina authorized East Carolina University to expand the First-Year Program and establish a degree-granting School of Medicine. The School of Medicine enrolled the first class of students in August 1977.

The school's educational facilities are located on the 100-acre Health Sciences Center campus. Preclinical instruction is offered in the nine-story Brody Medical Sciences Building, which is contiguous to the Pitt County Memorial Hospital. Comprehensive clinical instruction is offered in the hospital, which expanded in 1981 to 566 beds. Additional bed construction will begin in 1990. The regional, comprehensive Cancer Center and magnetic resonance and other clinical settings, either adjacent to or near the Health Sciences Center, include the Child Development Evaluation Clinic, Mental Health Center, Alcoholic Rehabilition Center, Rehabilitation Center, Area Health Education Center, and the Intensive/Intermediate Care Neonatal Unit. Other outpatient and clinical facilities affiliations in North Carolina are planned. The Biotechnology Building opened in 1988.

Curriculum. The first year of the four-year curriculum is devoted to the study of the anatomy and functions of the body through courses in gross and microscopic anatomy, biochemistry, physiology, microbiology/immunology, and genetics. Correlative clinical lectures in these as well as courses in psychosocial basis of medical practice, primary care conference, and philosophy and medicine relate the clinical aspects of medicine to the basic science presentations in this year. A family medicine preceptorship is mandatory.

The second-year curriculum is directed toward clinical medicine. Courses include pathogenic microbiology, pharmacology, pathology, and clinical pathophysiology. Also included in the second-year curriculum are courses in psychiatry, human sexuality, physical diagnosis and clinical assessment, primary care conference, life-style abuse, philosophy and medicine, and a family medicine preceptorship.

The third year is composed of six required clerkships: eight weeks each in family medicine, obstetrics and gynecology, pediatrics, and psychiatry and 10 weeks each in internal medicine and surgery.

The fourth year is composed of 36 weeks of clerkships and both clinical and basic science electives. Students select an individualized curriculum after consulting with faculty advisers.

Student performance is evaluated by letter grade, and promotion to the next year's class is recommended to the dean by the Promotions Committee of the respective year.

Requirements for Entrance. The MCAT and a minimum equivalent of three undergraduate years of preparation are required. Minimum course work requirements are:

	Years
General biology or zoology (with lab)	1
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
Physics (with lab)	1
English	1

Additional courses in the humanities and social sciences and a second year of English are recommended.

Selection Factors. Factors considered in the selection process encompass the social, personal, and intellectual development of each applicant. All available application data are evaluated: MCAT scores; academic performance; comments contained in letters of reference/recommendation; and the results of two personal interviews, conducted only at the medical school campus, with two members of the Admissions Committee.

The School of Medicine seeks competent students of diverse personalities and backgrounds, and all applicants are evaluated without regard to race, religion, sex, age, national origin, or handicap. First preference will be given to qualified residents of North Carolina.

Characteristics of the 1989 entering class of 72 students were: *mean GPA*, 3.2; *sex*, 35 women; *minorities*, 13 students; *MCAT scores, mean and range, B*-8.4 (4–12), *C*-7.3 (4–11), *P*-7.0 (4–11), *SP*-7.4 (4–12); *SA:R*-8.1 (4–12), *SA:Q*-7.0 (4–11).

Financial Aid. Limited resources are available for loans and scholarships. The Financial Aid Office will make every effort to provide information and financial aid to those students who demonstrate need for financial assistance in order to meet the costs of their educational and living obligations. Awards are based on need as determined by confidential information supplied by the student.

Part-time employment is not permitted during the first two years and may be undertaken during the last two years only by permission of the dean. Sixty-five percent of the student body receive some financial assistance.

Information for Minorities. Those members of minority groups, in particular those holding residence in North Carolina, are encouraged to apply. Minority representation on the Admissions Committee is significant, and the Center for Student Opportunities offers a wide range of services to students desiring assistance or guidance.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee after screening: $25
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  For North Carolina residents only
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Class matriculation date
Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 72 (7 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $1,344
  Nonresident: $11,848
Student fees: $458

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	428	733	1,161
Applicants Interviewed	327	33	360
New Entrants*	70	2	72

*100% took the MCAT and had baccalaureate degrees.

University of North Carolina at Chapel Hill
School of Medicine

Dr. Stuart Bondurant, Dean
Dr. William E. Bakewell, Jr., Associate Dean

Address inquiries to:
Admissions Office
CB# 7000 MacNider Hall
University of North Carolina at Chapel Hill
School of Medicine
Chapel Hill, North Carolina 27599-7000
(919) 962-8331

General Information. The School of Medicine of the University of North Carolina (UNC) at Chapel Hill was established in 1879 and expanded to a four-year school in 1952. Schools of dentistry, nursing, pharmacy, and public health are adjacent to the medical school on the university campus. Physical facilities include modern classrooms, multidisciplinary student laboratories, and a health sciences library with 233,770 print volumes, 3,855 audiovisual programs, 31,108 microform pieces, and current subscriptions to 4,590 periodicals. The North Carolina Memorial Hospital, the Biological Sciences Center, and the Cancer Research Center are major on-campus teaching resources. Area health education centers throughout the state provide clinical experience in community settings.

Curriculum. The curriculum emphasizes the application of science to the solution of clinical problems. Course committees composed of basic and clinical science faculty members are responsible for the courses of the first two years. Required clinical clerkships make up the third year. An additional year consisting primarily of clinical electives is required. It includes two required rotations in community primary care settings. Students may design individualized research projects under faculty direction. Combined-degree programs leading to M.D.-Ph.D. or M.D.-M.P.H. are offered. The honors/pass/fail grading system is used.

Requirements for Entrance. Requirements for admission are under review and are subject to change. At this time a minimum of 96 semester hours of accredited college work and the MCAT are required.

Students are encouraged to pursue one or more scholarly interests in depth during the undergraduate years, but course work must demonstrate proficiency in the natural sciences. Course work in the humanities and social sciences, as well as advanced work in the sciences and mathematics, is valued. Proficiency in the use of the English language is essential.

Specific course work must include:

	Sem. hrs.
Biology including vertebrate zoology (with labs)	8
Inorganic and organic chemistry including qualitative and quantitative analysis (with labs)	16
General physics (with lab)	8
English	6

Selection Factors. The Committee on Admissions evaluates the qualifications of all applicants to select those with the greatest potential for accomplishment in one of the many careers open to medical graduates. Preference is given to North Carolina residents. Among nonresident applicants, only those presenting truly superior credentials are competitive. The University of North Carolina does not discriminate on the basis of race, national origin, religion, sex, age, or handicap.

The AMCAS application is used for initial screening. Qualified North Carolina applicants and selected nonresidents are sent a supplementary application and are interviewed in Chapel Hill. In making its final selections from the group of qualified in-state applicants, the committee considers evidence of each candidate's motivation, maturity, leadership, and integrity and a variety of other personal qualifications and accomplishments in addition to the scholastic record. All information available about each applicant is considered without assigning priority to any single factor. No special admission tracks or quotas are applied among in-state applicants. The undergraduate major is not an important consideration, but excellence in the chosen field is expected. Previously rejected applicants are considered without prejudice.

Highly qualified resident and nonresident applicants are encouraged to consider application through the Early Decision Program.

Financial Aid. Scholarships and low-interest, long-term loans are available to students with financial need, determined through an evaluation by the Student Aid Committee of the total resources available to the student. Awards are based on information obtained from confidential applications submitted by the students. Fifty-four percent of the student body receive financial aid from funds controlled by the university. Financial need will not adversely affect a student's chances of admission, and no student once admitted should have to leave for personal financial need. Part-time employment is discouraged. A few scholarships are awarded for academic achievement and promise.

Minority and disadvantaged students admitted to the School of Medicine are eligible to participate in the Board of Governors' Medical Scholars Program. Those students who are selected receive annual stipends of $5,000 plus tuition and fees. Recipients must be residents of North Carolina who are enrolled in the School of Medicine on a full-time basis and who demonstrate financial need.

For additional information contact Ronald Oxendine at (919) 962-8335.

Information for Minorities. Minority students are encouraged to apply, and there is an active recruitment program for minority students through the Office of Student Affairs. The Medical Education Development Program is available to premedical and entering minority and disadvantaged students to acquaint them with the medical school curriculum and faculty and to assist them with learning skills development for medical school.

The Office of Academic Affairs provides academic counseling to students after they are admitted to medical school. Academic assistance is provided to students through the tutorial program, the Learning and Assessment Laboratory, and other resources within the university. Faculty members are available to assist students, and students are encouraged to see them for specific curricular problems. For students who have significant problems mastering the curriculum, a reduction in courses can be considered. A review program during the summer is provided for students with limited academic deficiencies. Students are reexamined at the end of the review period and promoted upon successfully passing the reexamination.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee after screening: $35
Oldest MCAT scores considered: 1977
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1990
Estimated number of new entrants: 160 (15 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $1,344
  Nonresident: $11,848

Student fees: $408

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	513	1,621	2,134
Applicants Interviewed	419	86	505
New Entrants*	141	19	160

*100% took the MCAT; 99% had baccalaureate degrees.

University of North Dakota School of Medicine

Dr. Edwin C. James, Dean
Judy L. DeMers, Associate Dean, Student Affairs and Admissions

Address inquiries to:
Secretary, Committee on Admissions
University of North Dakota
School of Medicine
501 Columbia Road
Grand Forks, North Dakota 58203
(701) 777-4221

General Information. The School of Medicine was established in 1905 as a basic science school offering the first two years of medical education. In 1973 legislative action created an expanded curriculum with the third year at the University of Minnesota or Mayo medical schools and the fourth year of elective clerkships on community campuses in North Dakota. In 1981 the legislature approved a full four-year medical school program within the state of North Dakota. The School of Medicine is university based but utilizes community physicians, clinics, and hospitals for the last two years of clinical education.

Curriculum. The School of Medicine emphasizes the training of primary care physicians. The freshman and sophomore years are spent at the University of North Dakota (UND) in Grand Forks. The junior year of clinical clerkships is in the hospitals and clinics of either Bismarck or Fargo. The senior-year elective experiences are available in Bismarck, Fargo, Grand Forks, Minot, and 27 other communities in North Dakota.

The School of Medicine also offers accredited undergraduate degrees in the allied health fields of physical therapy, medical technology, and cytotechnology. Graduate degrees in anatomy, biochemistry, microbiology, pathology, physiology, and pharmacology also are offered. Information on these programs may be obtained from the UND undergraduate and graduate catalogs.

A student, additionally, may apply for a combined M.D.-Ph.D. program once accepted for admission to the School of Medicine.

Requirements for Entrance. The MCAT and the equivalent of three academic years, or a minimum of 90 semester hours, from an approved college are required for admission. Preference is given to applicants who will have completed four years of college prior to enrollment.

Course work must include the following:

	Sem. hrs.
General biology or zoology	8
Inorganic and qualitative chemistry	8
Organic chemistry*	8
General physics	8
College algebra	3
Psychology or sociology	3
English composition and literature	6

*A semester or quarter of biochemistry may be substituted for the final semester/quarter of organic chemistry.

It also is highly recommended that students be computer literate.

Selection Factors. A student should have maintained a GPA of 3.0 or better (A = 4.0) to be considered for admission. Selection is based upon the scholastic record, letters of recommendation, MCAT scores, and a personal interview.

In addition to high academic achievement, selection is based on a number of factors, including the demonstration of such qualities as motivation and commitment to a medical career, empathy, compassion in interpersonal relationships, and problem solving.

Qualified North Dakota residents are given preference in admission. Almost all accepted students in recent classes have been residents of North Dakota. The only exceptions for non-North Dakota residents include a limited number of Minnesota residents or admission through either the Indians into Medicine (INMED) Program or through WICHE participation. Women are considered on the same basis as men.

The School of Medicine participates in the Professional Students Exchange Program administered by WICHE, under which legal residents of western states without a medical school may receive preference in admission. Certified WICHE students pay resident tuition. To be certified as eligible for this program, students must write to the WICHE certifying officer in their state of legal residence for the program application form. The number of students to be supported in each state in the field of medicine depends upon state appropriations. Addresses of state certifying officers are available from the Office of Student Affairs at the UND School of Medicine or from WICHE (see Chapter 3).

It is the policy of the University of North Dakota that there shall be no discrimination against persons because of race, religion, sex, national origin, or handicap and that equal opportunity and access to facilities be available to all.

Financial Aid. The financial resources of applicants are not considered in the selection process. Immediately after acceptance into the School of Medicine, the applicant is sent all available financial aid information and may make application for financial aid.

The awarding of financial aid is based on documented need. Loans and a limited number of scholarships and prizes are available. Some awards and scholarships are based on scholarship as well as need. Approximately 85 percent of the students receive some form of financial aid.

Information for Minorities. The INMED Program is a minority recruitment program for American Indian students. Up to seven qualified Native American students are admitted yearly through this program. State residency is not a consideration for admission through the INMED Program.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: July 1, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $25
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Dec. 15, 1990
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 4 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $75, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 55
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $7,586
  Nonresident: $18,966

Student fees: $218

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	75	36	111
Applicants Interviewed	67	29	87
New Entrants*	44	6†	50

*100% took the MCAT; 96% had baccalaureate degrees.
†Under INMED or WICHE programs.

Case Western Reserve University School of Medicine

Dr. Howard S. Sudak, Acting Vice President and Acting Dean
Dr. Albert C. Kirby, Associate Dean for Admissions and Student Affairs
Virginia L. Rabe, Financial Aid Manager

Address inquiries to:
Associate Dean for Admissions and Student Affairs
Case Western Reserve University
School of Medicine
2119 Abington Road
Cleveland, Ohio 44106
(216) 368-3450

General Information. The School of Medicine is located on the campus of Case Western Reserve University (CWRU), an independent and privately supported institution. Case Western Reserve is a comprehensive university with colleges of applied social sciences, dentistry, engineering, law, liberal arts, management, medicine, and nursing and a graduate school. The Ph.D. is available in 43 programs and the master's in 49. The university is one of over 90 cultural, educational, health, and service institutions in University Circle, a park-like area of 600 acres located five miles east of downtown Cleveland. Affiliated with the School of Medicine are University Hospitals of Cleveland, Cleveland Metropolitan General Hospital, the Cleveland Veterans Administration Medical Center, the Mt. Sinai Medical Center, and St. Lukes Hospital.

Curriculum. The School of Medicine offers an atmosphere in which students are encouraged to take initiative and responsibility in self-education. The educational program has three components. The Core Academic Program occupies much of the first two years and features integrated teaching of the basic biomedical sciences with multidisciplinary faculty teams. Case-oriented clinical problem-solving is featured as a part of mastering the basic sciences. The Patient-Based Program begins in the first year with each student being responsible for a maternity patient in the family clinic. The program continues in the second year with physical diagnosis under the guidance of physician preceptors in a variety of outpatient settings. In the third year, students take hospital-based clerkships in internal medicine, obstetrics-gynecology, pediatrics, psychiatry, and surgery and a primary care clerkship in outpatient clinics. The Flexible Program is an electives program with over 180 course offerings, 160 research possibilities, and 20 areas of concentration in which students may focus their work. Student-initiated electives are encouraged. A significant fraction of time in the first two years is available for Flexible Program activity. The fourth year is devoted to clinical electives.

The basic science departments all offer Ph.D. programs. A Medical Scientist Training Program (combined M.D.–Ph.D.) is available.

Requirements for Entrance. Only three years of college are required, but in practice few students without the baccalaureate degree have ever been admitted. All candidates are expected to have taken the MCAT, but this requirement may be waived in rare circumstances. The quality of work done is much more important than the field in which the student has majored. Specific requirements are minimal and include:

Biology: A one-year course in modern biology which emphasizes biochemical and quantitative concepts. Courses in anatomy, botany, ecology, and taxonomy will not fulfill this requirement.
Chemistry: Two years of chemistry including organic. Courses with an organic/biological chemistry content are acceptable.
Physics: A one-year course in introductory physics.
Demonstration of writing skills: This can be met by a course in freshman expository writing; however, other courses with significant writing content are acceptable.

No other courses are required or recommended. Students should major in areas of their own choosing.

Two special admission programs are available.

1. The Pre-Professional Scholars Program admits outstanding high school seniors jointly to the CWRU undergraduate program and the School of Medicine. See Chapter 12 for more information.

2. The Admission Program for Non-Traditional Students is limited to mature individuals with at least a baccalaureate degree. These persons must have demonstrated academic excellence in some area other than traditional premedical studies and must have demonstrated a successful and stable history of employment. This is a six-year program in which students complete two years of undergraduate premedical courses in

are not eligible. This is not a program for previously unsuccessful medical school applicants. Interested persons should request in writing an application from the School of Medicine. Applications are available July 1 and must be returned by December 1.

Selection Factors. The Admissions Committee selects students without regard to age, handicap, national origin, race, religion, or sex. The School of Medicine deliberately seeks a heterogeneous student body and does not rely solely on grades and MCAT scores in the admission process. Over 20 states of residence and 70 to 80 undergraduate colleges are represented in each entering class.

Some characteristics of the 1989 entering class were: *women,* 49 percent; *minorities,* 13 percent; *age,* 11 percent over age 30; *residence,* 61 percent legal residents of Ohio; *undergraduate major,* 60 percent in science; *average GPA,* 3.4; *average MCAT scores,* 9-10; *overall acceptance rate,* 249 offers of admission made to fill the class, and 7 students deferred matriculation to the next year.

Requests for interviews are initiated by applicants after they are notified that their applications are complete. However, the granting interviews is at the discretion of the Admissions Committee at all times.

Financial Aid. Financial aid is based on demonstrated need of the student. All applicants for aid must submit data for an analysis of need by GAPSFAS (see Chapter 6). This requires complete disclosure of resources available to the student from all sources. Approximately 75 percent of the students receive financial aid. Aid available from the school is a combination of loan and scholarship, with the proportions of each being dependent upon total need. Financial aid applications from the school are mailed in January, and awards are made June 1. Although the school's financial aid is generous, funds available from the school are limited and cannot meet full financial need in all cases. Students have to rely on other sources of support, including the Stafford Student Loan Program (formerly the Guaranteed Student Loan Program).

Information for Minorities. A variety of support services for retention of all students are offered. Inquiries may be directed to the school's Office of Minority Programs.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $30
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 4 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 138 (30 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees: $15,850

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	734	3,447	4,181
Applicants Interviewed	328	413	741
New Entrants*	84	54	138

*92% took the MCAT; 100% had baccalaureate degrees.

University of Cincinnati
College of Medicine

Dr. John J. Hutton, Jr., Dean
Dr. J. Robert Suriano, Associate Dean for Student Affairs/Admissions
Clarice P. Fooks, Assistant Dean for Admissions

Address inquiries to:
Office of Admissions
University of Cincinnati
College of Medicine
231 Bethesda Avenue
Cincinnati, Ohio 45267-0552
(513) 558-7314

General Information. Founded in 1819, the University of Cincinnati College of Medicine is the oldest medical college west of the Alleghenies. The College of Medicine, housed in the Medical Sciences Building completed in 1974, is located in the center of the University of Cincinnati Medical Center (UCMC). The UCMC includes the pharmacy and nursing colleges, two research institutes, and a 766-bed university hospital. In close proximity are six associated teaching hospitals with an additional 2,900 patient beds.

Curriculum. During the first two years of the curriculum, students receive training primarily in basic medical sciences. A clinical continuum containing interviewing, history-taking, and a field experience with a preceptor begins in the first year and continues in the second year with physical diagnosis and clinical lectures which include preventive medicine topics. These lectures are correlated closely with Year II basic science courses, and together they provide a pathophysiological framework which prepares students for their third-year clinical clerkships. In the summer between the first and second year there is an opportunity to do research or to take a clinical elective in family medicine.

Third-year clerkships include eight-week rotations each in medicine, pediatrics, and surgery; six-week rotations each in psychiatry and obstetrics/gynecology; a four-week rotation in primary care; two weeks of radiology; and six weeks of electives. The fourth-year requirements are an eight-week junior internship in internal medicine or pediatrics and 24 weeks of electives which must include a four-week internal medicine elective and a four-week Area Health Education Center (AHEC) elective. Portions of the elective time may be taken at other U.S. medical centers or abroad.

The AHEC offers clinical experiences in underserved rural and urban communities surrounding Cincinnati. The curriculum is designed to provide students with eight weeks of clinical experience at AHEC sites during their four-year education.

The college offers an M.D./Ph.D. degree option.

Evaluation of students is by an honors/pass/fail grading system in first- and second-year courses and an honors/high pass/pass/fail system in the third and fourth years. Excerpts from the narrative comments obtained from clerkships and electives are incorporated into the dean's letter. Students are required to take Part I and Part II of the NBME examinations. All students are required to pass Part I of the NBME examinations.

A prematriculation program is offered to educationally disadvantaged students. Learning resources support services are available to all students throughout their four-year program.

Requirements for Entrance. The MCAT and a minimum of three years at an accredited college are required. Approximately 99 percent of all matriculated students have received a minimum of a bachelor's degree. However, each year a few students with exceptional records are admitted after three years. Candidates are discouraged who are in the process of completing more than one of the required courses at the time of application. The prerequisites are:

	Sem./Qtr.
General biology (with lab)	2/3
General or inorganic chemistry (with lab)	2/3
Organic chemistry (with lab)	2/3
General physics (with lab)	2/3
English	2/3

In view of the rapidly broadening scope of medicine, the applicant is urged to include additional training in English and such general cultural fields as history, psychology, sociology, logic, or philosophy. Candidates may concentrate in any field.

Selection Factors. Selection for admission is based on a total assessment of each applicant's motivation, interests, character, demonstrated intellectual ability, previous academic record, MCAT scores, personal attributes and life experiences that exemplify these qualities.

Students are admitted on the basis of individual qualifications, regardless of handicap, age, sex, creed, race, or national origin. Preference is given to first-time applicants and to residents of Ohio.

All students will be asked to complete secondary applications. Academic credentials are evaluated on the basis of course level and load, involvement in extracurricular activities or employment, and other influential factors. Cutoff levels for GPAs or for the MCAT scores are not utilized. A selected group of students will be invited to the college for interviews. Since the interviews are an extremely important part of the process, they will be arranged at a mutually convenient time.

Financial Aid. All accepted students will be mailed financial aid information after January 1. Students are advised to apply for assistance prior to May 31. Over 67 percent of the students receive some form of financial aid. All students who wish to be eligible for aid from the College of Medicine must obtain assistance through the Stafford Student Loan Program. Students should be aware that the primary responsibility for financing a medical education is theirs and their parents'.

Information for Minorities. Members of racial minority groups are encouraged to apply. Fees are waived when justification has been forwarded through AMCAS. A supportive program and community efforts provide an enhanced learning atmosphere.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $25
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 150
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees
  Resident: $7,650
  Nonresident: $13,407

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	871	1,909	2,780
Applicants Interviewed	378	177	555
New Entrants*	122	28	150

*100% took the MCAT; 92% had baccalaureate degrees.

Medical College of Ohio

Dr. Lewis B. Morrow, Interim Dean and Vice President
Dr. Sam Schaeffer, Associate Dean for Admissions
Dr. Barry L. Richardson, Associate Dean for Minority Affairs

Address inquiries to:
Admissions Office
Medical College of Ohio
Caller Service No. 10008
Toledo, Ohio 43699
(419) 381-4229

General Information. The Medical College of Ohio graduated its first students in June 1972. The college's first major building, the Health Sciences Teaching and Laboratory Building, was completed in 1972 and is a part of a medical center complex currently operational on a 350-acre site in Toledo. The Mulford Library was dedicated in the spring of 1975, and the Health Education Building was completed in the fall of 1975. Clinical experience for students is being obtained in four hospitals, each of which also participates in the residency programs of the Medical College of Ohio. The primary teaching hospital is the Medical College of Ohio Hospitals, a facility completed in December 1979. A large core group of faculty members has been assembled.

In this medical school setting, the entering student is considered a graduate scholar by faculty members at all levels of seniority. The Medical College of Ohio seeks students who can grow intellectually and personally in this academic atmosphere.

Curriculum. The curriculum of the Medical College of Ohio is composed of a traditional four-year approach to medical education. The first year is devoted to anatomy, biochemistry, physiology, and behavioral sciences. The second year follows with approximately seven months devoted to microbiology, pathology, and pharmacology. Concurrently with the presentation of the basic sciences, at least one afternoon each week is devoted to the introduction to clinical medicine, which incorporates elements of the physical examination and interpersonal communications, and an interdisciplinary introduction to the clerkships. Introduction to medicine, the last two months of the second year, contains basic didactic sessions for each primary clinical discipline, coordinated sessions dealing with selected pathophysiological topics, and a series of clinical laboratory and patient procedure experiences.

The last two years of the curriculum are devoted to mandatory clerkships in internal medicine, surgery, pediatrics, obstetrics and gynecology, psychiatry, and family practice; selective clerkships in pathology, radiology, and anesthesiology/neuroscience; and electives. All students are required to rotate through a clinical Area Health Education Center (AHEC) comprising 10 percent of their total clerkship time.

Requirements for Entrance. The MCAT is required. A baccalaureate degree is recommended.

Students must plan their educational sequence with due appreciation for the biologically oriented, psychologically sensitive task that they are undertaking for their life's work. The minimal premedical course requirements are:

	Years
Biology	1
Inorganic chemistry	1
Organic chemistry	1
Physics	1
Calculus	1
College English	1

Additional biology courses are recommended. A comprehensive command and understanding of the English language are essential.

Beyond these requirements, concentration in humanities, sciences, or other areas is viewed with equal favor. Close attention will be paid to the general scope of the applicant's academic background and to whether or not there is indicated an adequate general understanding of the physical, biological, chemical, and social sciences and some reasonable sensitivity to the humanities.

Selection Factors. In selecting applicants, the Medical College of Ohio looks more for evidence of general competence and capability than for specific areas of study. Students are admitted on the basis of individual qualifications, regardless of sex, religion, race, age, or handicap.

Students in the 1989 entering class had the following credentials: *mean science GPA,* 3.22; *mean total GPA,* 3.27, *mean MCAT scores, B*-8.42, *C*-8.13, *P*-8.03, *SP*-7.95, *SA:R*-8.01, *SA:Q*-7.90; *sex,* 41 percent women; *minorities,* 9 percent; *undergraduate major,* 84 percent in science.

Interviews are by invitation only. Reapplicants are not penalized. Preference is given to Ohio residents.

Financial Aid. Financial aid is awarded on the basis of demonstrated need. Applicants for financial aid must submit a GAPSFAS form for consideration by the Financial Aid Committee. (See Chapter 6 for details.)

Information for Minorities. Members of racial minority groups are encouraged to apply. For further information contact the Office of Minority Affairs.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee after screening: $30
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  For Ohio residents only
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 135 (15 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $6,960
  Nonresident: $8,508

Student fees: $200

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	736	1,092	1,828
Applicants Interviewed	496	89	585
New Entrants*	126	9	135

*100% took the MCAT; 98% had baccalaureate degrees.

Northeastern Ohio Universities College of Medicine

Dr. Colin Campbell, Provost and Dean
Karen Berger, Associate Director of Admissions
Dr. Bonnie Jones, Assistant Dean for Student Affairs and Educational Research

Address inquiries to:
Office of Admissions and Educational Research
Northeastern Ohio Universities
College of Medicine
P.O. Box 95
Rootstown, Ohio 44272
(216) 325-2511

General Information. The Northeastern Ohio Universities College of Medicine (NEOUCOM) is a publicly supported medical school consisting of a basic medical sciences campus in Rootstown, three major public universities, and 17 community hospitals with over 6,000 teaching beds in the greater Akron, Canton, and Youngstown areas. The faculty numbers over 1,000.

Curriculum. NEOUCOM offers primarily a combined B.S./M.D. degree curriculum for honors level high school graduates who have not begun college study and, supplementarily, a four-year program leading to the M.D. degree.

B.S./M.D. degree students spend their first two years at either the University of Akron, Kent State University, or Youngstown State University studying the sciences, mathematics, and the humanities and in the process completing most or all of the required courses for the baccalaureate degree.

NEOUCOM was established to promote the education of physicians oriented to the practice of medicine at the community level. The freshman medical student concentrates on the basic medical sciences during the nine months spent on the Rootstown campus. During the sophomore year, students study principles of ambulatory care and organ system pathophysiology at ambulatory care teaching centers of the major associated teaching hospitals. They continue their clinical education through the core clerkships (internal medicine, surgery, pediatrics, psychiatry, and obstetrics/gynecology) and a primary care preceptorship during the junior year at hospitals on the Akron, Canton, or Youngstown clinical campuses. The senior medical year includes electives and a specially designed course in the medical humanities. All students are required to pass Part I and Part II of the NBME examinations. Course grading is on a pass/fail basis.

Requirements for Entrance. Admission to the combined B.S./M.D. degree program is restricted to students who have taken no college course work following high school graduation. Applicants should take the full science-oriented college preparatory sequence which their high school offers. The American College Test (ACT) or Scholastic Aptitude Test (SAT) must be taken, and the application deadline is December 31 of the year preceding anticipated entrance. Applications may be requested after July 1. Each year 105 students are chosen for the B.S./M.D. degree program.

Persons who have completed the equivalent of at least three years of undergraduate study may be admitted to the M.D. degree program. These applicants are required to have completed at least one year each of university level organic chemistry and physics. All students seeking direct entry into the M.D. degree program are required to take the MCAT no later than the fall prior to the year of anticipated enrollment. The number of spaces available for M.D. degree program candidates varies with the amount of attrition from Year II of the B.S./M.D. degree program.

Selection Factors. Applicants must demonstrate strong academic preparation as measured by GPAs and entrance examination scores. In addition, they must show appropriate personal characteristics and motivation for the practice of medicine. Selection interviews are by invitation only.

Admissions preference is given to Ohio residents. This preference is expressed both in terms of a limit of 10 percent of enrolled students as non-Ohio residents and in more stringent admissions criteria for nonresidents than for residents.

Applicants to the M.D. degree program who meet NEOUCOM's minimum academic criteria and who have taken the required course work are sent a supplementary application. Few Ohio applicants with college GPAs below 3.0 receive supplementary applications. Only those who complete supplementary applications are given full consideration by the Admissions Committee. Early submission of application materials is strongly encouraged, particularly through the Early Decision program.

NEOUCOM does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

Financial Aid. Campus-based financial aid is awarded on the basis of demonstrated need. In general, students apply for this aid by completing the GAPSFAS application (see Chapter 6) and the NEOUCOM financial aid application and by submitting copies of federal income tax forms and financial aid transcripts. The awards are made through the Student Aid and Awards Committee after a thorough analysis of the student's financial situation.

Long-term federal educational loans are a major part of the aid program. A limited number of need-based scholarships of $1,000 each are available. About 70 percent of enrolled students receive some form of financial aid. Financial need is not a factor in admissions considerations.

Information for Minorities. It is one of the goals of the Admissions Committee to seek out, recruit, and support qualified nontraditional applicants (members of medically underrepresented racial minorities and disadvantaged rural students). Students interested in further information should contact Charles G. Mickens, director of minority affairs.

Following sections present data for freshman medical year.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee after screening: $20
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class: None
Estimated number of new entrants: 20 (5 EDP) into four-year M.D. degree program (does not include combined B.S./M.D. program students)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $6,540
  Nonresident: $12,540

Student fees: $999

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	343	158	501
Applicants Interviewed	99	33	132
New Entrants*	19	5	24

NOTE: Figures do not include combined B.S./M.D. degree program students.
*100% percent took the MCAT and had baccalaureate degrees.

Ohio State University
College of Medicine

Dr. Manuel Tzagournis, Vice President for Health Services and Dean
Dr. Melanie Kennedy, Associate Dean for Student Affairs
Leibert W. Morris, Director of Admissions

Address inquiries to:
Admissions Committee
270-A Meiling Hall
Ohio State University
College of Medicine
370 West Ninth Avenue
Columbus, Ohio 43210-1238
(614) 292-7137

General Information. The College of Medicine of the Ohio State University, established in 1914, traces its lineage through a succession of Ohio medical education institutions to a pioneer medical school chartered in 1834, the Medical Department of Willoughby University on Lake Erie.

The Ohio State University main campus is located in the population center of metropolitan Columbus and includes colleges of dentistry, veterinary medicine, law, engineering, pharmacy, nursing, optometry, agriculture, education, and arts and sciences as well as the College of Medicine with its school of allied medical professions. Up-to-date basic science, outpatient, and inpatient teaching facilities and a library are located on the campus. Hospitals on the campus have a combined total of nearly 1,000 beds; affiliated Columbus hospitals provide another 3,000 patient care beds. A major additional facility, the Cancer Research Institute, opens in 1990.

Curriculum. During the first year some 80 percent of curricular time is spent learning about the normal human. This embodies a coordinated presentation of anatomy, biochemistry, and physiology with interdepartmental cooperation and coordination of presentations and examinations. Behavioral sciences and medical humanities, including an introduction to medicine, interviewing techniques, and patient exposure through practicing preceptors, take up the other 20 percent of each week.

The second year is introduced with basic concepts of pathology, pharmacology, medical microbiology, and immunology, after which pathophysiology and cardinal manifestations of disease are presented in organ system sequence. There is heavy clinical input in this portion of the curriculum along with physical diagnosis, which offers additional patient contact.

A unique Independent Study Program (ISP) offers an alternate track through the basic sciences and introductory clinical work described above. This is a carefully guided self-study program which includes one-on-one faculty contact for the most part and utilizes computer-assisted student self-evaluation along the way. This program permits time variable mastery of succeeding modules of material, thus permitting students who can maintain a rapid pace to master the content in time to complete the entire M.D. curriculum in less than four years, if desired. Thus, this program provides a 3-year option and provides great flexibility for other academic and research activities appropriate to an individual student's career development.

The clinical clerkship portion of the curriculum is common for both tracks and is composed of four weeks of introduction to clinical medicine, five major 8-week clerkships, (internal medicine, surgery, pediatrics, psychiatry, and obstetrics and gynecology), four weeks of family medicine, followed by nine 4-week blocks of senior selective and elective rotations. Vacation time is distributed according to rotation sequence.

Highly qualified students with an interest in research careers may apply for admission to the Medical Scientist Program (MSP) offering jointly the M.D. and the Ph.D. in a basic science field. The university offers fellowships covering full tuition, fees, and stipend for the seven-year program. Application forms and a brochure describing the MSP are sent with the medical college application form.

Requirements for Entrance. The MCAT and a bachelor's degree or certified eligibility for a degree in absentia are required. No specific undergraduate curriculum or major is required or preferred. A medical school candidate should follow an undergraduate program that is as broad and comprehensive as possible in order to prepare best for a career in a people-oriented profession in a changing society. Candidates are urged to take advantage of the undergraduate opportunity to study history, art, literature, creative writing, philosophy, social sciences, and communications skills.

The minimum course requirements are:

	Years
Biology (including vertebrate zoology)	1
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
General physics (with lab)	1

Waiver of any requirement must be recommended by the Admissions Committee and approved by the dean.

Selection Factors. First consideration is given to applicants who are Ohio residents and whose academic record and MCAT scores predict a high degree of academic accomplishment in medical school.

Successful candidates have had the following general profile of characteristics: *GPA*, 3.5 (90 percent over 3.0); *residence*, about 85 percent from Ohio.

Applicants are carefully processed and reviewed by the staff and faculty members of the Admissions Committee to be certain that excellent, although unusual, candidates who do not fit a general profile are not overlooked.

Additional factors that lend significant weight in further consideration are undergraduate academic recommendations and personal information in the application itself. Further consideration by way of interview is by invitation; interviews are held on the campus. Nonacademic accomplishments and evidence of suitability for the study of medicine are carefully considered and account for a sigficant range in grades, MCAT scores, and other parameters of the admitted class.

Financial Aid. Scholarships and loans are awarded on the basis of need. All accepted candidates are mailed financial aid materials in ample time prior to entering to be considered with students already in school. Financial need is not a deterrent to acceptance, and no students are lost through inability to find sufficient resources for continuing their education.

Roessler Foundation Student Research Scholarships provide stipends for many students doing part-time and full-time research during their medical school career.

Information for Minorities. Students whose previous educational and economic deprivation warrant special consideration are carefully evaluated and are offered special help in the acquisition of additional resources. Special programs are provided to enhance the educational development as individually evaluated at appropriate check points in the curriculum.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $20
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: First day of classes
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 210 (25 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees
  Resident: $5,976
  Nonresident: $16,779

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	852	1,167	2,019
Applicants Interviewed	406	127	533
New Entrants*	181	37	218

*100% took the MCAT and had baccalaureate degrees.

Wright State University School of Medicine

Dr. Stephen R. Kaplan, Dean
Dr. Paul G. Carlson, Assistant Dean
Allen N. Pope, Financial Aid Officer

Address inquiries to:
Office of Student Affairs/Admissions
Wright State University
School of Medicine
P.O. Box 1751
Dayton, Ohio 45401
(513) 873-2934

General Information. The Wright State University School of Medicine was established in 1973 and enrolled its first class of students in 1976. It is located on the university campus in Fairborn, a suburb of Dayton. Clinical facilities associated with the medical school include seven major teaching hospitals with 3,823 patient beds. These hospitals emphasize and provide experience with modern scientific technology. A faculty of over 1,000 provides students with the opportunity for individualized attention.

Curriculum. The primary objective of the educational program is to educate physicians to provide comprehensive care to patients and their families. During the first two years the scientific basis of medicine is introduced with fundamental concepts in anatomy, biometrics, biochemistry, microbiology, pathology, and pharmacology. The behavorial sciences, medical humanities, and an introduction to clinical medicine provide an early opportunity to interact with patients and understand the importance of health promotion and disease prevention. Throughout the first two years, clinical lectures and patient interviewing with physical examination occur along with the basic sciences. A unique feature of the curriculum is a two-week elective period following each quarter providing complementary opportunities in the basic sciences (e.g., introduction to research) or in clinical areas. After the first two years students participate in a problem-oriented clinical preparation clerkship with an emphasis on understanding laboratory testing, clinical reasoning, and patient management. The last two years include required clerkships in family practice, internal medicine, obstetrics/gynecology, pediatrics, psychiatry, surgery, emergency medicine, neurology/neurosurgery, and orthopedics. The fourth year includes six months devoted to electives, as well as a senior seminar enrichment program focusing on interdisciplinary and state-of-the-art topics in the practice of medicine. Emphasized throughout the curriculum are problem-based learning, clinical pharmacology, computers in medicine, geratrics, humanistic medicine, and health promotion and disease prevention. In addition to the four year medical school curriculum, a biomedical sciences Ph.D. program is also available to interested students. Both letter grades and honors/pass/fail are utilized in the grading system.

Requirements for Entrance. The MCAT and three years (90 semester hours or 135 quarter hours) of collegiate preparation in an approved college or university in the United States or Canada are required. Applicants are expected to present the equivalent of the usual premedical preparation. Course work must include:

	Years
Biology	1
Chemistry	2
Must include organic chemistry.	
Physics	1
College mathematics	1
English	1

While a basic understanding of the physical and biological sciences is important to a medical education, a broad appreciation of man and his social, cultural, and artistic efforts is equally necessary. Each applicant's credentials for admission will be individually reviewed and evaluated. The MCAT should be taken no later than the spring of the year in which the application is filed. Only those MCAT scores available at the time of review will be considered by the Admissions Committee.

Selection Factors. It is the philosophy of the School of Medicine to seek a student body of diverse social, ethnic, and educational backgrounds. Women, minority students, and representatives of rural Ohio are particularly encouraged to apply. However, applicants are admitted solely on the basis of individual qualifications without regard to race, sex, creed, national origin, age, or handicap. Individual competence, intellectual capacity, and personal maturity in the applicant are of greater importance to the Admissions Committee than specific areas of preprofessional preparation. The Admissions Committee, which is broadly based, also seeks positive evidence of motivation, selflessness, and human empathy in the prospective medical student. The committee carefully reviews the completed application, the academic record, MCAT performance, letters of recommendation, and the results of a personal interview (by invitation only) in making its final selection. Ohio residents are given preference, but a small number of nonresidents are accepted. Disadvantaged and minority applicants are encouraged to apply regardless of state of residence.

Upon receipt of the AMCAS application, the applicant will be invited to submit a supplementary application and letters of evaluation. After review of all submitted material, applicants will be invited for interview.

Financial Aid. Financial aid in the form of scholarships, grants, loans, and various work opportunities is available to assist students in financial need. The Office of Student Affairs/Admissions offers financial counseling services and assists students in obtaining needed support. An emergency loan fund for students in good academic standing is also available through this office. The financial status of applicants has no effect whatever on their acceptance to the School of Medicine.

Information for Minorities. The Wright State University School of Medicine and its faculty have a stated policy of providing educational opportunities to students from minority groups or educationally disadvantaged backgrounds.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $25
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 90 (20 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $6,825
  Nonresident: $9,660

Student fees: $740

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	662	398	1,060
Applicants Interviewed	332	56	388
New Entrants*	81	9	90

*100% took the MCAT and had baccalaureate degrees.

University of Oklahoma College of Medicine

Dr. Edward N. Brandt, Jr., Executive Dean
Dr. Nancy K. Hall, Associate Dean for Admissions and Student Affairs
David Barrett, Associate Director, Office of Financial Aids

Address inquiries to:
Susan Masara
Assistant Director of Student Affairs
University of Oklahoma
College of Medicine
P.O. Box 26901
Oklahoma City, Oklahoma 73190
(405) 271-2331

General Information. The College of Medicine was founded as a two-year school in 1900 on the Norman campus. It merged with the Epworth Medical College in Oklahoma City in 1910 and granted its first degrees in June of 1911.

The College of Medicine, located in Oklahoma City, is part of the University of Oklahoma Health Sciences Center. Included in the center are colleges of dentistry, nursing, pharmacy, public health, and allied health professions and the Graduate College. Also located in the center and utilized for medical education are the Veteran's Administration Medical Center and the State of Oklahoma Teaching Hospitals (Oklahoma Memorial Hospital, Oklahoma Children's Memorial Hospital, Don H. O'Donoghue Rehabilitation Institute, and Child Study Center).

Nearby facilities include Presbyterian Hospital, Dean A. McGee Eye Institute, Oklahoma Allergy Clinic, Dermatology Clinic, Family Medicine Clinic, Oklahoma City Clinic, Sylvan N. Goldman Center Oklahoma Blood Institute, Oklahoma Medical Research Foundation, and State Health Department. Other hospitals serve special educational functions within and near Oklahoma City.

Curriculum. A carefully developed core curriculum provides the general background of the principles common to all aspects of the medical sciences. Elective time is available throughout the four years to allow students to study in depth many of the facets of medicine or to acquire the broad base of skills essential for general practice. Over 200 elective courses are offered. Some students choose to supplement these offerings with study in other institutions throughout the world.

Patient contact begins in the first year, and much of the material presented in the preclinical years is structured on an interdepartmental basis.

The Tulsa Option provides medical students at the University of Oklahoma with the opportunity to complete their clinical training in the realistic setting of a community-based educational program. Tulsa Medical College (TMC) offers third- and fourth-year educational programs in regional medical centers and physicians' offices rather than in the traditional teaching hospital setting. Twenty-five percent of the class will complete their clinical training on the Tulsa campus. Those students utilize Hillcrest Medical Center, Saint Francis Hospital, and Saint John's Medical Center.

Requirements for Entrance. The MCAT is required and should be taken the spring of the year in which the application is filed. Applicants who have completed only 90 semester hours of college work may be considered; however, the college discourages such applications except from students who have demonstrated personal and intellectual maturity.

The following courses are required:

	Semesters
Vertebrate zoology/general biology (with lab)	1
Cell biology, embryology, histology, genetics, or comparative vertebrate anatomy	1
Inorganic (general) chemistry	2
Organic chemistry	2
General physics	2
English	3
Psychology, sociology, and/or anthropology (any combination of two courses)	2

Additional course work in the social sciences is suggested.

Pass/fail grading, advanced placement, and CLEP courses are accepted only if a subsequent higher course is taken for a grade.

No particular major is given preference, but the applicant must provide evidence of capability of understanding and utilizing scientific methods.

The supplemental application includes a request for pictures and a fee. Applicants are encouraged to request this application directly from the College of Medicine.

Selection Factors. Acceptance into the College of Medicine is based on GPA, MCAT scores, letters of evaluation from faculty and premedical committees, and personal interviews conducted on campus by student, faculty, and practicing physician members of the Admissions Board.

Currently nonresidents can represent 15 percent of the student body. The University of Oklahoma encourages applications from nonresidents and makes every effort to accept the full quota. Non-U.S. citizens must have permanent visas and be Oklahoma residents for consideration.

In the 1989 entering class there were 41 women and 12 nonresidents; the mean GPA of the class was 3.53.

The University of Oklahoma College of Medicine does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

Financial Aid. The College of Medicine offers a number of financial assistance opportunities in addition to the federally sponsored programs. The most prominent scholarships are the Regents' Scholarship Fee Waiver for entering minority students and the Oklahoma Rural Medical Education Loan and Scholarship Fund designed for Oklahoma residents wishing to practice in rural communities. The loan funds eatablished by the Shepherd Foundation, Inc., and the Lew Wentz Foundation, along with over 20 other scholarships, also aid many students annually. Additional support for minority students is available through the State Regents for Higher Education, the Ungerman Trust, and the Belknap Scholarship.

About 80 percent of all students receive some form of financial assistance through existing loan, scholarship, and part-time employment programs. Students are urged to examine their own abilities and priorities in regard to part-time employment during the school year.

Information for Underrepresented Minorities. The shortage of trained minority medical personnel in Oklahoma has created a need for innovative solutions to this problem. The University of Oklahoma has a strong commitment to identify, recruit, and educate underrepresented minorities (blacks, Native Americans, and all Hispanics). Applications are strongly encouraged from these ethnic groups as well as from any candidate with a disadvantaged background. Special consideration is given to each application.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Oct. 15, 1990
School application fee to all applicants: $10 for residents; $15 for nonresidents
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 150
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $4,500
  Nonresident: $11,454

Student fees: $130

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	274	535	809
Applicants Interviewed	252	111	363
New Entrants*	113	12	125

*100% took the MCAT; 98% had baccalaureate degrees.

Oregon Health Sciences University School of Medicine

Dr. John W. Kendall, Dean
Dick B. Speight, Director of Admissions and Registrar
Gregory L. Ball, Director of Financial Aid

Address inquiries to:
Office of the Registrar, L-109A
Oregon Health Sciences University
3181 S.W. Sam Jackson Park Road
Portland, Oregon 97201
(503) 279-7800

General Information. The University of Oregon Medical School was established by charter from the Board of Regents of the University of Oregon in 1887. The name was changed in November 1974 when the School of Medicine and the schools of nursing and dentistry reorganized under the University of Oregon Health Sciences Center; in 1981 it was renamed Oregon Health Sciences University. The Health Sciences University occupies a 101-acre site in Sam Jackson Park overlooking the city but within one and a half miles of the business center. Campus physical facilities include basic science, research, and laboratory buildings; two hospital units with a licensed capacity of 509 beds; an outpatient clinic; Crippled Children's Division; Child Development and Rehabilitation Center; a hearing and speech center; a library and auditorium; and a student activities building. The School of Medicine is affiliated with the 563-bed Veterans Administration Hospital. A residence hall is provided on the campus, and apartment rentals are available in the area.

The School of Medicine provides educational programs for medical students, nurses, graduate students in basic medical sciences, and residents and interns as well as programs for radiologic technologists, medical technologists, and dietitians. An extensive postgraduate program exists.

Curriculum. The first year and the first six weeks of the second year are primarily devoted to core courses in basic medical science, including an introduction to patient evaluation. The remaining portion of the second year consists of two courses, the major one being an interdisciplinary course in pathophysiology divided into nine segments based on specific organ systems. Concomitant with this course, one morning a week is spent in developing the techniques and background knowledge for clinical patient evaluation. The third and fourth years are primarily spent in clinical clerkships and include the equivalent of one and a half quarters of elective courses that may be chosen from both clinical and basic science disciplines.

Requirements for Entrance. The MCAT and three years of college are required. The applicant must have completed satisfactorily 138 quarters hours (92 semester hours) of credit to include the following specific requirements:

	Qtr. hrs.
General biology or zoology	9
Must include course work in basic genetics. A core program may possibly complete this requirement in one sequence	
Chemistry	24
General or inorganic chemistry (with lab)	(10-16)
Organic chemistry (with lab)	(8-12)
General physics (with lab)	12
Must include division of mechanics, heat and sound, and light and electricity.	
College mathematics	12
Must include calculus.	
General psychology	6

Advanced courses in physiology or embryology are recommended.

Courses in analytical chemistry, instructional analysis, or physical chemistry are recommended for students considering special medical programs with emphasis in the basic sciences.

Knowledge of a major modern foreign language is highly recommended as part of the cultural training of a physician.

Students entering the medical school without a baccalaureate degree must receive the degree from their undergraduate institution prior to promotion to the third year of medical school.

Selection Factors. In evaluating candidates, attention is given to the entire academic record, the results of the MCAT, college recommendations by the comittee or individuals of the college faculty, and personal interview with the Admissions Committee. Under certain circumstances the interview may be waived. Preference is given to residents of Oregon and western states having no medical schools. Each applicant is considered on the basis of qualifications without regard to race, creed, or sex.

The mean GPA was 3.40 for the 1989 entering class.

Financial Aid. About 90 scholarships of approximately $500 to $3,000 each are available. Loan funds have been established to help worthy students in need of financial aid. Both short-term and long-term loans are available at reasonable interest rates.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $40
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Dec. 1, 1990
  Latest date: Mar. 1, 1991

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit required to hold place in class: None
Estimated number of new entrants: 90
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $4,773
  Nonresident: $10,677

Student fees: $945

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	208	412*	620
Applicants Interviewed	178	17†	195
New Entrants‡	90	4**	94

*Of this total, 40 applicants were from states participating in WICHE.
†Of this total, 12 were from states participating in WICHE; 5 were nonresidents.
‡100% took the MCAT; 99% had baccalaureate degrees.
**Of this total, 2 were from states participating in WICHE; 2 were not.

Hahnemann University School of Medicine

Dr. Harry Wollman, Dean and Vice President for Academic Affairs
Dr. A. Charles Winkelman, Assistant Dean for Admissions
Anthony P. Doyle, Manager, Student Financial Aid

Address inquiries to:
Medical School Admissions
Mail Stop 442
Hahnemann University
School of Medicine
Broad and Vine Streets
Philadelphia, Pennsylvania 19102-1192
(215) 448-7600

General Information. The Hahnemann University, founded in 1848, is a private, coeducational, nondenominational institution located in central Philadelphia. The Hahnemann University Hospital (550 beds), School of Medicine, Graduate School, School of Health Sciences and Humanities, and supporting facilities occupy two city blocks. Hahnemann has a system of clinical campuses; the Healtheast Affiliated Hospitals in Allentown and the Crozer-Chester Medical Center in Chester add more than 1,000 teaching beds. Other affiliations in Pennsylvania and New Jersey add 2,000 teaching beds.

Curriculum. The curriculum is designed to be flexible and to provide a foundation of medical knowledge that will facilitate the student's pursuit of any area of medicine. The curriculum is subject to change whenever the need for new concepts of instruction arise. There is an honors/pass/fail grading system.

The first two years are devoted to courses in the basic sciences and an interdisciplinary course, Introduction to Clinical Medicine, that includes behavioral and clinical science and laboratory medicine. The student develops the knowledge and skills necessary for clinical interaction with patients and receives fundamental training in the application of the basic sciences to clinical medicine.

The third year is devoted to intensive clinical clerkship training in each of the recognized major divisions of medical practice. Emphasis is placed upon problem-solving and clinical application of basic science knowledge.

The fourth year offers a balance of four-week-long required and elective rotations. Ambulatory medicine, two subinternships (one required in internal medicine), neurology, and an academic rotation comprise the five required portions of the senior year. The remainder of the year is elective, allowing the student to pursue a desired curriculum.

Requirements for Entrance. Applicants for admission must have completed a minimum of 90 semester hours or the equivalent in a course of study leading to the baccalaureate degree from an accredited U.S. college or university. Preference is given to applicants with the baccalaureate degree. Those presenting only a minimum of three years of course work must be exceptionally well qualified to receive serious consideration. A major in science is not required. Nonscience majors are encouraged to apply. All applicants must take the MCAT. The MCAT must be taken within four years of matriculation.

Specific course requirements are:

	*Sem. hrs.**
General biology (with lab)	8
General or inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
English composition and literature	6
Social science	6
Humanities	6

*Or equivalent

Students receiving advanced placement or CLEP credit for required courses are advised to take additional work in the same department.

Selection Factors. The School of Medicine seeks to admit persons from a wide spectrum of experience and backgrounds with the goal of obtaining a heterogeneous group of mature, thoughtful, and dedicated students. The school particularly encourages applications from members of cultural and economic groups underrepresented in the medical profession who possess the motivation and aptitude for the study of medicine. Preference is also given to Pennsylvania residents.

The selection of entering students is made after careful consideration of the entire application and interview. Academic performance is evaluated with regard to the specific institution attended and the applicant's academic load and MCAT scores. The applicant is also evaluated on the basis of character, motivation, maturity, promise for the future, and personal fitness to pursue the study of medicine. These qualities are assessed through recommendation letters, the AMCAS personal statement, and the applicant's record of extracurricular activities and involvement in community affairs. Interviews are by invitation only.

Hahnemann University is affiliated with an accelerated seven-year B.A.-M.D. program at Boston University and at Gannon University. In addition, there's a standard eight-year program with Rosemont College for early assurance of medical school admission for high school students. Hahnemann is also affiliated with the University of Pennsylvania and Bryn Mawr College for early assurance of medical school admission for postbaccalaureate students.

The School of Medicine and the Graduate School offer a program for highly qualified students to pursue a combined M.D.-Ph.D. degree. Applications to the M.D.-Ph.D. Program are accepted only after matriculation in the School of Medicine. Hahnemann University offers to qualified dental surgeons a 36-month program leading to the M.D. degree.

Hahnemann University, in compliance with local, state, and federal laws and regulations, does not discriminate on the basis of race, religion, sex, age, national origin, handicap, sexual preference, disabled or Vietnam era veterans status, or the ability to pay for medical education.

Characteristics of the students in the 1989 entering class were: *average science GPA,* 3.21; *average total GPA,* 3.11; *mean MCAT scores,* 8.5 or better in each subtest; *residence,* 40 percent from Pennsylvania; *sex,* 40 percent women; *minorities,* 14 percent.

Financial Aid. Financial aid awards are based on need. Need is established by the use of a national standard financial aid application form through the Pennsylvania Higher Education Assistance Agency (PHEAA). All needy students must borrow through the Stafford Student Loan Program to cover a portion of their need. The federal Health Professions Student Loan Program, the Perkins Loan Program, and the Health Education Assistance Loan Program are the primary sources of aid. Over 90 percent of the student body receive some form of aid each year. Financial aid applications may be obtained from the Office of Student Financial Aid.

Information for Minorities. Applications from members of minority groups are encouraged. Educationally disadvantaged minorities may avail themselves of a program which provides tutoring and counseling. A pre-enrollment summer program is also offered. Interested applicants may obtain details from Fredericka Waugh, director, The Resource System.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Oct. 15, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 15 days
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 170 (5 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $18,070

Student fees: $700

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	876	4,175	5,051
Applicants Interviewed	365	833	1,200
New Entrants*	77	98	175

*100% took the MCAT and had baccalaureate degrees.

Jefferson Medical College of Thomas Jefferson University

Dr. Joseph S. Gonnella, Dean and Senior Vice President
Dr. Benjamin Bacharach, Associate Dean
for Admissions

Address inquiries to:
Associate Dean for Admissions
Jefferson Medical College
of Thomas Jefferson University
1025 Walnut Street
Philadelphia, Pennsylvania 19107
(215) 928-6983

General Information. Jefferson Medical College was established in 1824. It is private, nondenominational, and coeducational. On July 1, 1969, Thomas Jefferson University was established with the Jefferson Medical College as one of its colleges. Clinical instruction is carried out at Thomas Jefferson University Hospital and 18 affiliated federal and community hospitals.

Curriculum. The goals of the curriculum at Jefferson Medical College are to provide learning experiences which will enable students to acquire basic knowledge and skills as well as to develop the proper habits and attitudes needed by all physicians. The curriculum also allows students to pursue some of their special interests early in their medical training.

The first two years of instruction will encompass both a departmental and systems approach. The first-year curriculum includes Anatomy, Biochemistry, Biostatistics, Histology, Physiology, Neuroscience, Mechanisms of Disease, Medicine and Society, and Introduction to Clinical Medicine. The curriculum in the second year includes Microbiology and Immunology, Pathology, Pharmacology, Introduction to Clinical Medicine, and Medicine in Society.

The clinical program consists of two 42-week phases. Phase I covers required clerkships, including family medicine, general surgery, internal medicine, pediatrics, psychiatry, and obstetrics and gynecology. Advanced basic science, rehabilitation medicine, the medical and surgical subspecialties and inpatient and outpatient subinternships in medicine or surgery are usually included in the second clinical phase. Courses in the basic sciences are given numerical grades.

A joint accelerated program with the Pennsylvania State University enables selected, highly qualified students to earn both the B.S. and M.D. degrees in six calendar years immediately after high school. A Jefferson-Delaware Medical Education Program is available to residents of Delaware. Physician Shortage Area Program serves to recruit selected students who agree to practice family medicine physician shortage areas, (especially in rural communities of Pennsylvania). This program includes the Jefferson-Indiana University of Pennsylvania Cooperative Family Medicine Education Program. There are two separate M.D.-Ph.D. programs for students interested in research and academic medicine. One program provides full tuition for medical and graduate school plus an annual stipend. Opportunities in basic science research and in clinical research are also available to students.

Requirements for Entrance. A minimum of three years (90 semester hours or equivalent) in an accredited college or university and the MCAT are required. A baccalaureate degree is preferred. It is recommended that, regardless of major, each student acquire a baccalaureate education which includes broad study in the natural and social sciences and in the humanities. The undergraduate program should include a strong preparation in the sciences and mathematics basic to medical school studies. Courses taken to meet the basic requirements should be rigorous and, in general, comparable to courses accepted for concentration in these disciplines.

Course work must include:

	Years
General biology (with lab)	1
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
General physics (with lab)	1

Students may take additional upper level science courses out of interest or to fulfill requirements of their major.

If advanced placement credits in required subjects are submitted, additional courses in similar subjects are encouraged.

All academic requirements must be completed prior to the date of matriculation.

Students are advised to take the MCAT in the spring of the year of application.

Selection Factors. Jefferson does not discriminate on the basis of race, national and ethnic origin, religion, sex, handicap, or age in administration of its educational policies, admission policies, scholarships and loan programs, athletic, or other school-administered programs. The selection of students is made after careful consideration of many factors including the college attended, the academic record, the letters of recommendation, the MCAT scores, and the Committee on Admissions' opinion of the applicant's personal qualities, motivation, interpersonal skills, and achievement in nonacademic areas. Jefferson Medical College traditionally has given special consideration to residents of Pennsylvania, offspring of faculty and alumni, minority applicants, and applicants to Jefferson's special programs. Qualified foreign students are encouraged to apply. Foreign applicants must have a degree from an accredited U.S. or Canadian college or university.

The 224 members of the 1989 entering class came from 94 different undergraduate schools. Six students are citizens of foreign countries. A profile of the matriculated students includes the following: *mean science GPA*, 3.40; *mean MCAT score*, 10; *sex*, 33 percent women; *mean age*, 24 (range 19–42).

Financial Aid. Financial aid awards are based on need determined by a confidential analysis of information that is provided by the student and the student's family to the needs analysis service GAPSFAS (see Chapter 6). If need is established, the student is directed to obtain a federally guaranteed loan. If need exists beyond this program, Jefferson will try to meet a portion of this need from loan and grant funds. Applications for financial aid are available after January 15 from the Office of Student Financial Aid. Completed financial aid applications for the next academic year must be submitted before April 1 or within two weeks of the date of acceptance.

Information for Minorities. Applications from qualified members of racial minority groups and those from economically and socially disadvantaged backgrounds are encouraged. Specific information is available from Dr. George Alexander, assistant dean for minority affairs.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $60
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Nov. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 223 (20 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $17,150

Student fees: $19

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	958	3,355	4,313
Applicants Interviewed	*	*	1,080
New Entrants†	123	101	224

*Data not available.
†100% took the MCAT; 99% had baccalaureate degrees.

Medical College of Pennsylvania

Dr. Leonard L. Ross, Interim Dean
Dr. Margaret Levy, Associate Dean for Student Affairs
Dr. Andrew B. Beasley, Associate Dean for
Student Affairs (Admissions)

Address inquiries to:
Associate Dean for
Student Affairs (Admissions)
Medical College of Pennsylvania
3300 Henry Avenue
Philadelphia, Pennsylvania 19129
(215) 842-7009

General Information. The Woman's Medical College of Pennsylvania was founded in 1850 by a group of male physicians to afford women an opportunity to study medicine. In 1969 men were admitted to the medical school, and the present name was adopted in 1970. The medical school and hospital are situated on a 33-acre campus five miles from the center of Philadelphia. The Hospital of the Medical College of Pennsylvania has over 445 beds. Additional opportunities in clinical teachings are afforded by affiliation with several other hospitals.

In 1988, the Medical College of Pennsylvania entered into a partnership with Allegheny Health Services, Inc., parent corporation of Pittsburgh's Allegheny General Hospital (AGH). AGH is an 830-bed regional referral health education and biomedical research center, which includes the 94-bed Allegheny Neuropsychiatric Institute. As a result of the agreement, the Medical College of Pennsylvania has become a sister organization to AGH and Allegheny-Singer Research Institute. With the establishment of a second campus at Allegheny, the medical school offers students the opportunity to experience two distinct learning environments.

Curriculum. The curriculum is designed to provide a thorough knowledge of the basic sciences with attention to the correlation of such material with the clinical sciences. This is provided by means of curricular and elective programs in the first and second years. The basic clinical clerkships are given in the third year and provide a basic exposure to each major clinical discipline. The fourth year is elective, and the content of that year is arranged by students and their advisers in such a way as to be consistent with the ultimate career goals of the student. The curriculum is monitored by both faculty and students, and appropriate modifications are made to achieve the overall educational objective.

The Medical College of Pennsylvania has joint accelerated programs with Lehigh University and Villanova University whereby highly qualified students can earn the baccalaureate and M.D. degrees in six or seven years. Additionally, combined M.D.-Ph.D. and M.D.-M.S. programs are available to students who desire careers in research and academic medicine.

Requirements for Entrance. The MCAT and a minimum of 90 semester hours from an accredited college are required. The baccalaureate degree is highly desirable.

To expedite the processing of applications, the MCAT and the required course work should be completed prior to the time of application.

The required courses are:

	Sem. hrs.
Biology (with lab)	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
English	6

Selection Factors. The Medical College of Pennsylvania is a state-assisted school, and it is estimated that 50 percent of the 113 students admitted to the 1990 entering class will be Pennsylvania residents. In accord with the historical commitment of this institution, applications from women are particularly encouraged.

Matriculated students in the 1989 entering class had an average GPA of 3.41 and MCAT scores at or above the 75th percentile level. All interviews are conducted at the medical school campus.

The Medical College of Pennsylvania complies with federal and state laws prohibiting discrimination.

Financial Aid. In addition to the Stafford Student Loan Program (formerly Guaranteed Student Loan Program), the Health Professions Student Loan Program, other federally funded aid programs, and assistance in obtaining money from foundation sources, the Financial Aid Office has at its disposal limited private grant and loan funds. A College Work-Study Program for qualified students is also available. All money allocated by the school is awarded on the basis of financial need. Information and applications are available from the Financial Aid Office.

Information for Minorities. Applications are actively solicited from students of minority and disadvantaged backgrounds.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants. $55
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Class starting date

Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 113 (5 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $15,590

Student fees: $335

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	916	2,483	3,399
Applicants Interviewed	285	371	656
New Entrants*	44	66	110

*100% took the MCAT; 88% had baccalaureate degrees; and 14% were from the accelerated B.A.-M.D. programs.

Pennsylvania State University College of Medicine

Dr. C. McCollister Evarts, Senior Vice President for Health Affairs and Dean
Dr. David M. Leaman, Chairman, Medical Student Selection Committee
Robert C. Aber, Associate Dean for Student and Alumni Affairs

Address inquiries to:
Office of Student Affairs
Pennsylvania State University
College of Medicine
P.O. Box 850
Hershey, Pennsylvania 17033
(717) 531-8755

General Information. The Pennsylvania State University College of Medicine was founded in 1964 through a $50 million gift from the Milton S. Hershey Foundation for the establishment of a medical school and teaching hospital at the Milton S. Hershey Medical Center. Additional construction funds were received from the U.S. Public Health Service, and the College of Medicine enrolled its first class in September 1967.

The 550-acre campus contains a medical sciences building, including a cancer research wing; a 344-bed hospital; student-housestaff apartments; a fitness center complete with gym, racquetball and squash courts, and a variety of exercise equipment; a magnetic resonance imaging building; and a heliport for LIFE LION, an aeromedical service. The University Physicians Center, which provides a variety of outpatient services, allows student to learn in an office setting.

To accommodate growth in both academic and clinical programs, plans are underway for a $200 million expansion. The construction includes a seven-story hospital addition, a seven-story academic addition, a second outpatient building, additions to the academic building and the east side of the hospital, and other expansion and improvements throughout the Medical Center. The seven-story hospital addition will include Penn State's University Hospital Rehabilitation.

The George T. Harrell Library has 125,000 volumes and receives over 1,800 periodicals.

Curriculum. Instruction in the first year is organized around the basic science core curriculum with an integrated approach to the teaching of organ systems and correlations between scientific principles and patient material. The first-year courses include microscopic anatomy, embryology, biological chemistry, gross anatomy, family and community medicine, molecular and human genetics, physiology, neurobiology, physical diagnosis, behavioral science, radiobiology, and clinical correlations. Elective course time is provided for humanities.

The second year consists of an interdisciplinary organ system approach to clinical science and pathology integrated with microbiology, pharmacology, and physical diagnosis. Required also in the second year are longitudinal courses in behavioral science and psychiatry with particular emphasis on preventive medicine and organized systems of health care delivery.

The third year consists of required clinical clerkship experiences distributed among medicine, obstetrics and gynecology, surgery, pediatrics, psychiatry, neurology, and family and community medicine. The fourth year contains both selective and elective periods, with students selecting basic science or clinical science electives consonant with their educational and career plans. A final requirement is the completion of an original clinical or basic science study before graduation (medical student research).

There is an honors, high pass, pass, fail grading system.

The medical school curriculum is constantly under review by the faculty and students, and continual revisions of the educational program are made on the basis of experience.

Requirements for Entrance. The MCAT and three years of college are required for admission. The baccalaureate degree is highly desirable.

The following subjects are considered by the Medical Student Selection Committee to be required:

	Years
Biology	1
Inorganic chemistry	1
Organic chemistry	1
Physics	1

Other recommended courses are: mathematics (calculus), behavioral science, genetics, and physical chemistry.

Students should be exposed to a broad background in the humanities and social sciences. Studies that develop verbal competence and enlarge perspectives and capacities for critical, historical, and moral judgments are especially encouraged.

Students are urged to take the MCAT in the spring of the year they expect to apply. Taking the MCAT in the fall will delay consideration of the application. It is recommended that basic science courses be completed before applying.

Selection Factors. Applicants must evidence superior undergraduate achievement and outstanding personal characteristics. Each application is considered individually; a decision is reached after thorough evaluation of the applicant's academic record; letters of assessment, MCAT scores, and personal interview. Since the practice of medicine requires a lifelong devotion to self-education, emphasis is placed on the excellence of the individual scholar no matter what the student's previous area of study. An important consideration is the student's understanding of the relationship between the sciences and liberal arts.

Applicants are considered without regard to sex, race, religion, or national origin.

Some characteristics of accepted students in the 1989 entering class were: *average GPA*, 3.53; *sex*, 34 percent women.

Financial Aid. All financial aid is granted to students on the basis of need as determined by GAPSFAS. (See Chapter 6 for details.) A student is considered for all funds available through the College of Medicine including federal as well as institutional funds when a GAPSFAS application is filed. Approximately 85 percent of the student body receive financial assistance from some source; 60 percent receive funds from school sources. Students' financial needs are reviewed annually, and awards for each year reflect the financial situation of students and their families for that year. Awards are usually distributed throughout the entire year (fall and spring semesters). All funds disbursed by the school, including College Work-Study Program funds, are described in detail in the school catalog. Specific inquiries should be addressed to Gaye W. Sheffler, Office of Student Affairs.

Information for Minorities. Applications from minority group students are encouraged. Faculty members, with student support, are active in the recruitment of minority students.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $40
Oldest MCAT scores considered: 1989
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due March 1, 1991
Deposit refundable prior to: March 1, 1991
Estimated number of new entrants: 100 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $12,544
  Nonresident: $18,442

Student fees: $302

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	916	1,079	1,995
Applicants Interviewed	*	*	494
New Entrants†	71	23	94

*Data not available.

†100% took the MCAT; 98% had baccalaureate degrees.

University of Pennsylvania School of Medicine

Dr. William N. Kelley, Executive Vice President and Dean
Dr. Fredric D. Burg, Vice Dean for Education
Susan R. Croll, Director of Admissions

Address inquiries to:
Director of Admissions
Suite 100-Medical Education Building
University of Pennsylvania
School of Medicine
Philadelphia, Pennsylvania 19104-6056
(215) 898-8001

General Information. The School of Medicine, the first in the United States, was founded in 1765 and is a private, nondenominational school located on the urban campus of the University of Pennsylvania.

As part of the one university concept, medical students participate throughout their enrollment as members of the university as well as the School of Medicine community. In their clinical years, medical students receive their education mostly in the Hospital of the University of Pennsylvania and the Children's Hospital of Philadelphia, immediately adjacent to the school, and in the local, formally affiliated Graduate, Pennsylvania, and Veterans's Administration of Philadelphia hospitals and Presbyterian Medical Center of Philadelphia. Student housing, both on and off campus, is plentiful.

Curriculum. The curriculum is designed to prepare students for a variety of careers in medicine. It stresses understanding concepts, emphasizes techniques of problem-solving, and facilitates independent study. The curriculum is divided into three stages: Stage I, the 10-month first year, emphasizing basic science; Stage II, the first six months of the second year, emphasizing the pathophysiology of disease and introduction to clinical medicine; and Stage III, the remainder of the curriculum, emphasizing clinical medicine. Clinical teaching, including bedside teaching, is introduced at the beginning of the first year. Approximately half of the curriculum is elective. An honors/pass/fail system is used for grading.

Numerous opportunities are available to augment medical studies with expanded study experiences, which may (1) further development of an existing scholarly interest, (2) add desired specialized skills and knowledge to those gained through the general curriculum, and (3) permit the exploration of potential interests in research, academic medicine, and other career options for physicians.

The special experiences range in length from two-month summer research programs to several additional years, which may be undertaken by students working toward both the M.D. and Ph.D. degrees. Opportunities exist for involvement in a full-year expanded study experience, which may involve basic science or clinical research, or study and special projects in other schools of the university. Students may engage in these programs at various points in their medical education, and some may be organized on a half-time basis while attending medical school half-time.

Combined-degree programs are available in the traditional biomedical sciences as well as in other areas, such as engineering, business administration, and education.

Requirements for Entrance. The MCAT and a baccalaureate degree from an accredited U.S. college or university are required. Students with degrees from foreign institutions must have completed one year of course work in the sciences in a U.S. college or university.

Students are encouraged to obtain a broad education in the liberal arts while undertaking preparation in the sciences which is appropriately rigorous. Science courses should include laboratory experience, which enables students to become active participants in problem-solving.

Because the content of courses varies among different educational institutions, the School of Medicine does not have specific course requirements. Students are expected to acquire appropriate competence in English and communication, biology, chemistry, physics, and mathematics. The school has developed general outlines of the requisite knowledge and skills in these disciplines, which are available upon request from the Office of Admissions.

In addition, students should carry out additional work in accordance with their own interests and curiosity. They should attempt to develop, through their formal course work and other educational experiences, an appreciation of the basic social, cultural, and behavioral factors that influence both individuals and communities in their approach to health and disease.

Selection Factors. The School of Medicine will emphasize those qualities of motivation, intellect, and character essential to the physician. Consideration also will be given to special features of background and experience which may contribute to a candidate's potential for a medical career. Applicants should give evidence of their capacity to deal effectively with other people, organize their own activities, set priorities, accept responsibility, and function under stress.

While the Committee on Admissions has no preference regarding the area of concentration, applicants are expected to have approached their chosen field in scholarly fashion and to have demonstrated excellence in whatever courses of study they have pursued. Applicants are expected to have gained the requisite knowledge and skills in English and communication, biology, chemistry, physics, and mathematics. Although the curriculum takes into account the varied backgrounds of entering students, all applicants should have an appreciation of how new knowledge is obtained, analyzed, and interpreted through the methods of descriptive and analytical research.

In evaluating candidates, the Committee on Admissions reviews the academic record, recommendations from college premedical evaluation committees, scores on the MCAT, quality of and commitment to extracurricular activities, and strength of personal qualifications. Interviews are required for admission and are arranged for only by invitation of the Committee on Admissions. Applicants from all sections of the country are invited to apply, although some preference is given to Pennsylvania residents.

The University of Pennsylvania does not discriminate on the basis of race, sex, sexual preference, age, religion, national or ethnic origin, or physical handicap.

Financial Aid. Grant and loan assistance is available for students who qualify on the basis of need and who are U.S. citizens or U.S. permanent residents. The school uses the services of GAPSFAS (see Chapter 6). Over 75 percent of the student body receive financial assistance of some sort. The ability of students to pay for their medical education does not affect the decision on their applications for admission.

Information for Minorities. Minority students are encouraged to apply. Specific information can be obtained by writing to Dr. Helen O. Dickens, associate dean for minority affairs, or Dr. Karen E. Hamilton, associate director for minority affairs.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $55
Oldest MCAT scores considered: 1977
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Dec. 1, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to required fees): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 150
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $17,150

Student fees: $664

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	732	3,830	4,562
Applicants Interviewed	182	764	946
New Entrants*	69	83	152

*100% took the MCAT and had baccalaureate degrees.

University of Pittsburgh School of Medicine

Dr. George M. Bernier, Jr., Dean
Dr. Barbara A. Levey, Associate Dean and Director of Admissions
Lisa T. Wick, Coordinator of Student Aid

Address inquiries to:
Office of Admissions
M-245 Scaife Hall
University of Pittsburgh
School of Medicine
Pittsburgh, Pennsylvania 15261
(412) 648-9891

General Information. The Western Pennsylvania Medical College, chartered in 1886, became associated with the University of Pittsburgh in 1908. The School of Medicine is located in the Oakland district of Pittsburgh on the campus of the university in the Alan Magee Scaife Hall of the Health Professions. The six major affiliated hospitals of the Medical and Health Care Division of the University of Pittsburgh (Children's Hospital of Pittsburgh, Eye and Ear Hospital, Magee Women's Hospital, Presbyterian-University Hospital, Montefiore Hospital, and Western Psychiatric Institute and Clinic) are adjacent to the School of Medicine. In addition, the Oakland Veterans Administration Medical Center is linked strongly with the medical school, and affiliations with many regional community hospitals give students access to clinical experience.

Curriculum. The School of Medicine has a tradition of excellence in teaching, research, and patient care. A strong curriculum is directed at graduating well prepared physicians. Students are encouraged to develop self-learning skills in preparation for lifelong self-education. First-year courses include basic sciences and several clinically related electives. The basic science courses are correlated with Introduction to Clinical Medicine in the second year, during which the courses Psychiatry and Clinical Skills are also offered. The third year covers the major clinical specialties in the form of clerkships. The senior year, planned by the students with their faculty advisers, consists of four- to eight-week elective rotations and a required subinternship.

In addition to the curricular offerings, there are opportunities for students to interact with community physicians through the Western Pennsylvania Health Preceptorship Program.

An honors/pass/fail system is used for grading.

A combined M.D.-Ph.D. program is available to qualified applicants who aspire to careers in academic medicine. The duration of study for the combined degrees is projected to be seven years. Programs are available in conjunction with several schools and departments within the University of Pittsburgh and Carnegie-Mellon University. In addition to training in the classic disciplines, there is opportunity for study in several innovative areas such as medical robotics, diagnostic medical computerization, nuclear magnetic resonance, and molecular and cellular biology. Information regarding this program may be obtained from the Office of Admissions.

Requirements for Entrance. The MCAT is required, and four years of college are preferred. Work completed in another professional school is not applicable. It is recommended that applicants take the MCAT in the spring of the third year of college study but no later than the application deadline of November 15.

Specific minimum admission requirements include:

	Years
Biology, exclusive of botany (with lab)	1
General or inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
Physics (with lab)	1
English	1

English courses must engender effective writing skills as well as familiarity with the great works of literature. A strong background in mathematics, including calculus or calculus-based courses, is an essential component of medical school preparation; instruction in biostatistics and computer science is useful. Studies in social and behavioral sciences and humanities are strongly encouraged. Courses taken in chemistry, physics, biology, and mathematics should be acceptable for students majoring in these subjects.

The University of Pittsburgh School of Medicine recognizes the importance of both flexibility in premedical education and scholarly preparation for admission. Other curricular combinations which provide equivalent preparation will be considered. Because experiences such as independent study and research foster the continual self-education essential to all physicians, students are encouraged to augment broad educations with the pursuit of some discipline in depth. Applicants must have completed most premedical requirements to receive serious consideration. All requirements must be met prior to matriculation.

Selection Factors. Applicants are chosen on the basis of intellect, integrity, maturity, and the ability to interact with people. In the competitive evaluation of applicants, consideration is given to the past academic record, both in high school and college; the results of aptitude and achievement tests; evaluations of college preprofessional committees; letters of recommendation, preferably from faculty members with whom the student has interacted in scholarly pursuits; extracurricular activities; and personal interviews. No one is accepted without an interview. Interviews are conducted at the medical school campus with few exceptions. All applicants are considered without regard to race, sex, creed, national origin, age, or handicap. Foreign nationals must have permanent resident visas and have completed at least one year of undergraduate education in the United States. Some preference is given to Pennsylvania residents since the university is a state-related school. There is an active recruitment program for minority and disadvantaged students.

Financial Aid. Scholarships and loans administered by the School of Medicine are available to students who are determined to have need. Evaluation of applications is conducted through GAPSFAS (see Chapter 6) and by the school's Financial Aid Committee. Financial aid applications may be obtained after January 15 from Lisa T. Wick, coordinator, Office of Student Aid. Summer research fellowships and other employment opportunities are available.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee after screening: $50
Oldest MCAT scores considered: 1986
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 136 (10 EDP)
Starting date: Aug. 1990

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $13,700
  Nonresident: $19,160
Student fees: $216

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	808	1,837	2,645
Applicants Interviewed	*	*	584
New Entrants†	99	34	133

*Data not available.
†100% took the MCAT and had baccalaureate degrees.

Temple University
School of Medicine

Dr. Joseph H. Baum, Acting Dean
Dr. Marie A. Bernard, Assistant Dean for Admissions
Linda Conard, Assistant Director, Financial Aid

Address inquiries to:
Admissions Office
Suite 305, Student Faculty Center
Temple University
School of Medicine
Broad and Ontario Streets
Philadelphia, Pennsylvania 19140
(215) 221-3656

General Information. The Temple University School of Medicine opened as a college of Temple University in 1901. The School of Medicine shares a campus with Temple Hospital, other health-related schools of the university, and the Student/Faculty Center. Clinical experience and instruction are given at the new Temple University Hospital, St. Christopher's Hospital for Children, Albert Einstein Medical Center (Northern Division), Germantown Hospital, and 23 other affiliated hospitals, both in Philadelphia and other Pennsylvania cities.

Curriculum. The curriculum is designed to prepare students for graduate medical education by providing them with a background of basic factual knowledge and concepts, a command of the language of biomedical science, a mastery of the skills necessary for clinical problem-solving and therapy, and a habit of continued self-education.

In the first two years, although primary emphasis is on the principles, concepts, and major factual background of the basic sciences taught in large measure in a small-group format, attention is also given to the clinical application of this material. In addition, courses on clinical medicine and primary care concepts prepare the students to assume initial clinical responsibilities. The third year includes clerkships in family practice, internal medicine, obstetrics-gynecology, pediatrics, psychiatry, and surgery which provide experience in clinical diagnosis, problem-solving, therapeutic planning, and patient relationships. In the fourth year, four weeks are devoted to oncology and to disorders of individual organ systems. There are required rotations in emergency medicine, neuroscience, a surgical specialty, and a subinternship and 20 weeks of individually planned electives which permit students to explore career choice, correct deficits, and expand clinical knowledge.

There is an honors/high pass/pass/conditional/fail grading system.

An M.D.-Ph.D. program is available.

Requirements for Entrance. The MCAT and a minimum of 90 semester hours in an accredited college or university are required for admission. Applicants need not major in science, and a strong background and preparation in the humanities with particular emphasis on expository writing are essential. Students who have not completed the baccalaureate degree but who have demonstrated exceptional academic capability and evidence of unusual maturity may apply. The undergraduate program must include:

	Sem. hrs.
Biology (with lab)	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
Humanities	6

Applicants are asked to have recommendations from their undergraduate premedical committee or faculty in two of the following three subjects: biology, chemistry, and physics.

It is suggested that the MCAT be taken in the spring of the calendar year of application and that all courses required for medical school be completed by the time of application.

Selection Factors. A variety of objective and subjective factors are considered in making decisions. Among these are the academic record and the college attended, MCAT scores, recommendations from faculty, extracurricular activities, and work experience. Those candidates who are to be given very serious consideration are invited for personal interviews with a member of the Admissions Committee.

As a state-related school, Temple shows preference to residents of Pennsylvania; however, a significant percentage of matriculants may be residents of other states. Nonresidents with a particular interest in Temple and strong credentials are encouraged to apply. The Early Decision Program is also encouraged for such students.

Temple University School of Medicine does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

Selected characteristics of the 1989 entering class are as follows: *mean science GPA*, 3.18; *median MCAT: sciences*, 9, *skills*, 9; *sex*, 48 percent women; *minorities*, 15 percent (about 12 percent black).

Applicants who apply for early decision should have a GPA of 3.5 or better and MCAT scores averaging 10 or more.

Financial Aid. With the exception of small amounts of scholarship money, which is based on need plus academic potential, all financial aid is in the form of loans and is based solely on need. Need is established by the use of a national standard financial aid application through GAPSFAS which details financial resources of students (or their families) and balances them against a standard budget plus special need factors. A modicum of relatively low cost financial aid comes from Temple University based moneys as part of the federal programs for the Health Professions Student Loan and the Perkins Loan. The initial source of assistance for most students will be the Stafford Student Loan Program (formerly Guaranteed Student Loan Program); in fact, all eligible students are expected to secure the first $7,500 of aid from this source. For many students, the primary source of funds is the Health Education Assistance Loan (HEAL) Program. Other sources of assistance may come from medical societies, fraternal organizations, church groups, and, in the case of minority students, from the National Medical Fellowships, Inc. In selected instances students have applied to the scholarship programs of the Armed Forces and the National Health Service Corps. Approximately 80 percent of the students receive financial aid.

Information for Minorities. An active program, Recruitment, Admission, and Retention (RAR), meets the special needs of minority applicants. RAR provides exceptional resources for professional academic guidance and personal counseling. Participation in the Summer Educational Reinforcement Activity is encouraged for accepted minority students and others.

Application and Acceptance for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants: $40
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 180 (3 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $14,212
  Nonresident: $18,964

Student fees: $854

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,016	2,508	3,524
Applicants Interviewed	600	321	921
New Entrants*	123	51	174

*100% took the MCAT; 99% had baccalaureate degrees.

Universidad Central del Caribe School of Medicine

Dr. Raul A. Marcial-Rojas, President and Dean
Dr. Arturo Santiago, Dean for Admissions and Student Affairs

Address inquiries to:
Office of Admissions
Universidad Central del Caribe
School of Medicine
Ramón Ruiz Arnau University Hospital
Call Box 60-327
Bayamón, Puerto Rico 00621-6032
(809) 740-4265

General Information. The Universidad Central del Caribe School of Medicine was founded in 1976. Classrooms, laboratories, and research and undergraduate clinical training facilities are located at the Ramón Ruiz Arnau University Hospital, a few minutes away from our facilities, where students are also provided with undergraduate clinical training.

Curriculum. The stated educational goal of the medical school is to develop an individual who is oriented toward the provision of primary health care. Throughout the medical school experience of the student, the emphasis of the curriculum is placed on general internal medicine, general pediatrics, and family medicine and community health.

The curriculum develops over four years of study, organized as two years of preclinical and two years of clinical experiences. Clinical correlations are included in the basic sciences courses. Introduction to clinical medicine is offered in the second year. This is a problem-based course structured around prevalent problems encountered in primary care. Its foundation is the biopsychosocial model. The third-year learning experience evolves around the required clerkships in internal medicine, pediatrics, obstetrics-gynecology, and family and community medicine. The latter takes place in the ambulatory setting. During the fourth year, students enroll in the surgery and psychiatry clerkships. Sixteen weeks of elelctives are provided.

Individual student evaluation in all requisite basic science and clinical science courses is based on letter grade and pass/fail systems. Student evaluation in all elective courses is based on an honors/pass/fail system.

Requirements for Entrance. The MCAT and a minimum of 90 credits of satisfactory work in an accredited undergraduate institution are required. A baccalaureate degree is highly recommended. All premedical course requirements must either be completed or be in progress prior to consideration for admission.

Required premedical courses and minimum required credits are:

	Sem. hrs.
General biology or zoology	8
General chemistry	8
Organic chemistry	8
General physics	8
College mathematics	6
English	6
Spanish	6

An adequate background in the social sciences and humanities is highly recommended.

The applicant must demonstrate proficiency in both Spanish and English. Teaching in basic sciences and clinical sciences is conducted mainly in Spanish.

Applicants are strongly urged to take the MCAT in the spring prior to application and to have completed the required courses by the time of application since applications are not reviewed by the Admissions Committee until the MCAT scores and grades are available. Taking the fall MCAT or having required courses in process may delay consideration of an application, thus reducing the applicant's chances of acceptance.

Selection Factors. The selection of candidates for admission is made exclusively by the Admissions Committee. The admission process does not discriminate against any individual on the basis of sex, race, religion, economic status, political ideology, or national origin. Major factors considered in the selection of candidates for admission include undergraduate academic record, general GPA and science GPA, performance in all areas of the MCAT, results of a personal interview, and letters of recommendation. A personal interview is required prior to consideration for admission. All interviews are arranged by the Office of Admissions and are conducted at the medical school facilities in Bayamón. Rejected applicants are given the opportunity to reapply for admission.

For the 1989 entering class the mean undergraduate general GPA was 3.22, and 46.7 percent of the entering students were women.

Financial Aid. The Office of the Dean for Student Affairs provides financial aid counseling to all prospective students. Incoming freshman students qualify for application to all pertinent federal and commonwealth scholarship and loan programs. Economic status of the applicant is not a consideration during the selection of candidates for admission.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS and institutional applications
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  For Puerto Rico residents only
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 10 days
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 60 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $15,000
  Nonresident: $22,000

Student fees: $97

Information on 1989-90 First-Year Class

Number of	*Puerto Rico*	*Other*	*Total*
Applicants	246	220	466
Applicants Interviewed	135	11	146
New Entrants*	58	2	60

*100% took the MCAT; 95% had baccalaureate degrees.

Ponce School of Medicine

Dr. Luis F. Sala, President and Dean
Dr. Ana A. Padró, Dean of Admissions
Adma I. Adams, Financial Aid Officer

Address inquiries to:
Admissions Office
Ponce School of Medicine
P.O. Box 7004
Ponce, Puerto Rico 00732
(809) 840-2575

General Information. The Ponce School of Medicine of the Ponce Medical School Foundation, Inc., formerly Catholic University of Puerto Rico School of Medicine, took over the operations on July 1, 1980, under the government of a board of trustees. The school graduated its first class in June 1981.

Clinical training is offered at the following facilities in Ponce: Damas Hospital, a private institution with 356 beds; La Playa Diagnostic Center, which serves as the main training area for community and family practice; Ponce District Hospital with 550 beds; Dr. Pila Hospital with 160 beds; and St. Luke's Hospital with 160 beds. Clinical training is also offered at the Concepción Hospital with 188 beds, located in San Germán, and at Yauco Regional Hospital with 140 beds.

Curriculum. The medical program's basic objective is to provide the commonwealth of Puerto Rico, especially the southern region of the island, with ethically motivated, professionally competent primary care physicians. The curriculum provides students with an early experience in family and community health needs. During the first two years the basic medical sciences are thoroughly emphasized. Clinical experience takes precedence during the third and fourth years. The correlation between the basic and clinical sciences is achieved in a multidisciplinary program. Throughout the four-year program, great emphasis is placed on the students' contact with patients and their families, as a complement to the students' academic-hospital experience.

Every academic semester contains, in addition to the regular curricula, a series of supplementary seminars dealing with the ethical and social components of medical practice and with additional specific subjects that are incidental and relevant to the profession. The program seeks to develop well balanced, mature general practitioners, equally well qualified in the professional and ethical aspects of medicine.

Students' work is graded according to an honors/pass/fail/incomplete/extended system.

Requirements for Entrance. The MCAT and a minimum of three years (90 semester hours) of accredited college work are required. Accredited courses should include the following minimum requirements:

	Sem. hrs.
Biology	8
Inorganic chemistry	8
Organic chemistry	8
Physics	8
College mathematics or trigonometry	6
Humanities	6
English	12
Spanish	12

Academic requirements should be met not later than during the academic year immediately preceding the applicant's anticipated entrance to the school. Applicants are required to submit written evaluations from three faculty members of the institution where they have recently studied or one from their premedical advisory committee.

Selection Factors. Selection of applicants is made by the Admissions Committee on the basis of academic achievement, MCAT ratings, evaluation letters, and personal interviews. The interviews are used to determine the motivation and character of the applicants. Only those who pass a preliminary screening, based on MCAT rating and college grades, are interviewed. Careful consideration is given to all applicants regardless of racial or ethnic background, religious affiliation, sex, or national origin. Residents of Puerto Rico are given preference, although a limited number of applicants who live in the United States may gain admission. Candidates who do not have at least a functional knowledge of both English and Spanish are not encouraged to apply, since instruction is given in both languages.

The 1989 entering class had the following profile: *average GPA*, 3.15 (60 percent above 3.0); *sex*, 32 percent female; *residence*, 91 percent from Puerto Rico, 9 percent from the continental U.S.; *undergraduate major*, 68 percent in biology and general science.

Financial Aid. Most of the regular opportunities are locally available, including loans through banking institutions. The Student Financial Aid Office offers individual advice and assistance depending on need and existing possibilities properly verified and certified.

About 75 percent of the 1989 entrants received financial aid. Students are informed about opportunities for financial assistance prior to acceptance to the School of Medicine.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  For Puerto Rico residents only
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 15 days
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $1,000, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 48 (3 EDP)
Starting date: June 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $14,000
  Nonresident: $21,000

Student fees: $1,525

Information on 1989-90 First-Year Class

Number of	*Puerto Rico*	*Other*	*Total*
Applicants	226	220	446
Applicants Interviewed	150	18	168
New Entrants*	48	5	53

*100% took the MCAT; 76% had baccalaureate degrees.

University of Puerto Rico
School of Medicine

Dr. Petra Burke, Acting Dean
Rita Aponte-Rodríguez, Admissions Officer
Lourdes Pont, Acting Director, Financial Aid Office

Address inquiries to:
Central Admissions Office
School of Medicine
Medical Sciences Campus
University of Puerto Rico
G.P.O. Box 5067
San Juan, Puerto Rico 00936
(809) 758-2525, Ext. 5213

General Information. The University of Puerto Rico School of Medicine was established in 1949. The chief teaching institution is the University District Hospital. The affiliated hospitals of the Puerto Rico Medical Center and the Hospital Consortium, which includes the main health care facilities in Ponce, Mayaquez, Caguas, and Carolina, also serve the medical school for teaching purposes. Besides the School of Medicine, the Medical Sciences Campus provides space for the School of Dentistry, the College of Allied Health Professions, the Faculty of Biosocial Sciences and Graduate School of Public Health, and the School of Pharmacy. Its location, adjacent to the University District Hospital, permits integration of basic and clinical departments and an improved utilization of all Medical Sciences Campus resources.

Curriculum. The curriculum is designed to last four academic years. The first two years include the fundamentals of biological, behavioral, and clinical sciences. The instructional units in the first year and half of the second year are handled by the basic sciences departments. The rest of the sophomore year is dedicated to pathophysiology, physical diagnosis, and basic clerkship, which are offered by a multidisciplinary faculty. Individual and collective human behavior, environmental factors, and public health are included in a course designed to interrelate the effects of these variables on man. The third year is primarily dedicated to clinical experiences, and the fourth year is spent in required clinical experiences and elective courses. The use of educational techniques, such as instructional objectives, increased use of audiovisual resources, diversification of teaching exercises, and criterion-reference evaluation, is emphasized. Students are graded on a letter grade system in all four years.

Requirements for Entrance. The MCAT and a minimum of 90 semester hours of accredited college work, which must be completed no later than the academic year (not summer session) preceding admission, are required. The MCAT should not be taken later than September of the year before admission. Fluency in Spanish and English is required. College work must include the following courses:

	Sem. hrs.
Biology	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
Physics (with lab)	8
English	12
Spanish	12
Behavioral and social sciences Course work must be in sociology, psychology, political sciences, economics, or anthropology.	6

The School of Medicine accepts CLEP and advanced placement examinations toward the fulfillment of admission requirements if credits are granted for having passed the exams and are clearly indicated on the undergraduate college transcripts as having been accepted by that college.

Since the preclinical courses in the School of Medicine are largely scientific in nature, it is to the student's advantage to obtain a well rounded undergraduate education.

Selection Factors. In selecting students the Admissions Committee considers the candidate's academic record, MCAT scores, recommendations of instructors, attitudinal and other personality factors assessed in required personal interviews, extracurricular activities, and any other pertinent information. Personal interviews are conducted only by invitation from the Admissions Committee to those students with high numerical ranks according to a formula approved by the Academic Senate. This formula gives equal weight to academic indices and MCAT scores, with somewhat less weight being given to ratings derived from evaluations by premedical committees and interviewers. Arrangements can be made for candidates from the continental United States to be interviewed by members of admissions committees at other schools of medicine or by alumni, although interviews on the island are scheduled to coincide with the December holidays to allow for local evaluations. Rejected applicants are given the opportunity to reapply for admission. Applicants, without exception, must submit all application materials and supporting credentials by December 1 of the year preceding the school year for which they request admission.

The School of Medicine has the policy of giving equal opportunity for education and training in the practice of the health professions without regard to race, creed, sex, national origin, age, or handicap. Since the school is mainly supported by the commonwealth of Puerto Rico, however, preference is given to U.S. citizens who are legal residents of Puerto Rico.

Accepted students for the 1989 class had the following credentials: *mean GPA*, 3.54 (range 2.74–4.00; 96 percent above 3.0); *mean science grade index*, 3.46 (range 2.68–4.00; 91 percent above 3.0); *mean and range MCAT scores*, *B*-8 (6–12), *C*-8 (6–11), *P*-7 (5–10), *SP*-7 (4–12), *SA:R*-6 (1–10), *SA:Q*-5 (3–11); *sex*, 41 percent female; *residence*, 100 percent from Puerto Rico; *overall acceptance rate*, 272 applications were received, and 107 offers of acceptance were made to obtain a class of 93 freshmen.

Financial Aid. Financial aid is available to students in all four years. More than 50 percent of the students receive some kind of financial aid from the Medical Sciences Campus at some time during their four years of study. Awards are made by the Committee on Scholarships and Loans on the basis of confidential applications submitted by the students. Financial need is the major criterion. Applicants who require scholarship assistance may make application in conjunction with the application for admission or at any time before April 30, but financial need will not influence the selection process. Forms are available from the Financial Aid Office of the Office of the Dean for Student Affairs at the Medical Sciences Campus upon request.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: July 1, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants: $15
Oldest MCAT scores considered: 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Feb. 15, 1991
  Latest date: Mar. 15, 1991

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 135
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $2,500
  Nonresident: Pays according to a standardized fee scale (U.S. mainland and foreign residents)

Student fees: $205

Information on 1989–90 First-Year Class

Number of	*Puerto Rico*	*Other*	*Total*
Applicants	263	9	272
Applicants Interviewed	169	0	169
New Entrants*	93	0	93

*100% took the MCAT; 85% had baccalaureate degrees.

Brown University Program in Medicine

Dr. Stephen R. Smith, Associate Dean of Medicine
Kathleen A. Massone, Manager of Admission and Financial Aid
Dr. Seymour Lederberg, Associate Dean of Graduate Studies

Address inquiries to:
Office of Admission
Box G-A212
Brown University
Program in Medicine
Providence, Rhode Island 02912
(401) 863-2149

Important Note. The Brown University program is an eight-year continuum of college and medical school (Program in Liberal Medical Education) which offers admission to high school seniors. However, there are limited spaces available for admission into the first year of medical school (the Program in Medicine). Please read carefully the information provided below regarding eligibility for admission before requesting an application.

General Information. Brown University, founded in 1764, is the seventh oldest college in America and the third oldest in New England. In 1963 a Master of Medical Science Program, a six-year course of study emphasizing the basic sciences and encompassing the four years of premedical education and the first two years of medical school, was inaugurated. A Program in Medicine leading to the M.D. degree was accredited in 1975 as a four-year medical school. In 1981 the trustees of Dartmouth College and the Corporation of Brown University approved the Brown-Dartmouth Medical Program to which 20 medical students are admitted jointly. Students spend the first two years at Dartmouth Medical School and transfer to the Brown University Program in Medicine.

Entry into the first year of the Brown University Program in Medicine is only available to applicants applying to the M.D./Ph.D. program and students enrolled in post-baccalaureate premedical study at Brown University, Bryn Mawr College, or Columbia University. This traditional avenue of medical school admission is limited because the majority of first-year entrants are from the eight-year continuum program. The Brown-Dartmouth Medical Program admits 20 students each year for the first two years of medical study at Dartmouth and the last two years at Brown. Students who are interested in this program should apply through Dartmouth Medical School. (See Dartmouth Medical School entry for further information.) Students attending any school accredited by the Liaison Committee on Medical Education may apply for advanced standing admission into the Program in Medicine.

Curriculum. The Program in Medicine is based on Brown's campus and in the university's affiliated hospitals (Bradley, Butler, Memorial, Miriam, Rhode Island, Roger Williams, Women and Infants, and Veterans Administration hospitals).

The first year is devoted to courses in human morphology, mammalian physiology, human histology, social and behavioral sciences, medical microbiology, biochemical pharmacology, general pathology, and medical biochemistry.

The second-year curriculum consists of pathophysiology, neurosciences, systemic pathology, organ system pharmacology, and introductory courses in psychiatry and physical diagnosis.

Students in the third and fourth years are required to satisfactorily complete 48 weeks of clinical clerkships and 32 weeks of clinical electives. The clinical clerkships include internal medicine (12 weeks), surgery (12 weeks), psychiatry (6 weeks), obstetrics and gynecology (6 weeks), pediatrics (6 weeks), and community health (6 weeks). An advanced clinical clerkship (subinternship) and an ambulatory continuity are strongly recommended.

The graduate programs offered to M.D./Ph.D. candidates are molecular biology, cell biology, and biochemistry (including immunology); pathobiology; physiology and neurobiology; artificial organs and biomaterials; epidemilogy and gerontology; ecology and evolutionary biology.

Requirements for Entrance. The MCAT or Graduate Record Examination (GRE) is required only if the applicant is applying for the M.D./Ph.D. program. Satisfactory completion of the following courses is required:

	Semesters
Biology	2
Biochemistry	1
Calculus	1
General chemistry	1
Organic chemistry	1
Physics	2

Course work in statistics/probability and psychology are recommended.

Selection Factors. Students are selected on the basis of scholastic accomplishment and promise, intellectual curiosity, emotional maturity, character, motivation, and particularly the degree to which they seem adapted to the special features of the program. Preference is given to applicants with substantial educational exposure to the humanities and/or social sciences.

Applicants are assessed without regard to sex, race, religion, national or ethnic origin, sexual preference, age, or physical handicap. Applications from medically underrepresented minority groups and Rhode Island residents are especially encouraged.

Financial Aid. Before students may be considered for financial aid from Brown University, they must apply for a federally insured guaranteed student loan. Financial aid may then be offered in the form of scholarship, loan, or both. Over half of the entering class receives financial aid. Financial aid is not awarded to foreign national students beyond the resources available from funds specially designated for that purpose. M.D./Ph.D. students are eligible for a graduate fellowship (tuition and stipend) during the Ph.D. portion of their studies and a full tuition scholarship for the last two years of medical school following successful completion of the Ph.D. work.

Application and Acceptance Policies for 1991-92 First-Year Class in Program in Medicine

Filing of application
  Earliest date: Aug. 15, 1990
  Latest date: March 19, 1991
School application fee to all applicants: $60
Oldest MCAT scores considered: 1981
  (for M.D./Ph.D. applicants only)
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Varies
  Latest date: April 15, 1991
Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 60 (majority will be from eight-year continuum)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class in Program in Medicine

Tuition: $17,700

Student fees: $660

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	34	57	91
New Entrants*	19	44	63

NOTE: Figures include students from eight-year continuum.
*98% had baccalaureate degrees; MCAT is not required.

Medical University of South Carolina College of Medicine

Dr. Allen H. Johnson, Interim Dean
Dr. Milton C. Westphal, Assistant Dean, Admissions
Julia P. Goode, University Registrar and
Director of Admissions

Address inquiries to:
University Registrar and
Director of Admissions
Medical University of South Carolina
171 Ashley Avenue
Charleston, South Carolina 29425
(803) 792-3281

General Information. The College of Medicine of the Medical University of South Carolina (MUSC) was founded in Charleston in 1824 and is the South's oldest medical school. Its major clinical facilities comprise the MUSC Medical Center, which consists of the Medical University Hospital, the Children's Hospital, the Storm Eye Institute, and the newly opened Psychiatric Institute. The adjacent Veterans' Administration Hospital and Charleston County Memorial Hospital, along with consortium and community hospitals in Greenville, Spartanburg, Columbia, and Florence, supply additional facilities for clinical teaching.

A seven-story Basic Sciences Building provides spacious quarters for instruction of basic medical sciences. The Administration Building houses a library with substantial holdings, up-to-date study areas, and the Learning Resources Center. In addition to the classical basic science and clinical departments, there is a Department of Family Medicine which conducts a model program in the clinical area. Instruction in all disciplines benefits from the availability of teaching materials supported by the Office of Educational Services.

Curriculum. The goal of the College of Medicine is to produce a caring and competent physician capable of choosing any postgraduate career. The curriculum during the first two years addresses four major objectives: provision of basic science concepts; acquisition of problem-solving strategies; development of skills which permit the performance of an adequate history and physical examination; and an introduction to the role of the physician in society. During these years emphasis is placed on small-group instruction.

The junior year consists of five core clerkships. The clinical core consists of 12 weeks each of medicine and surgery and eight weeks each of obstetrics and gynecology, pediatrics, and psychiatry. During these experiences, emphasis is placed on the development of clinical, interpersonal, and professional competence.

During the senior year, students take a minimum of seven 4-week periods. Two of these are selectives, one of which is a clinical externship and the other a primary care ambulatory experience in one of the core subjects. The remaining five blocks are elective and, depending on previous academic performance, can be taken at approved sites throughout the state and country.

The College of Graduate Studies and the College of Medicine offer a combined program leading to both the M.D. and Ph.D. degrees. The purpose of this combined program is to provide competence in medicine plus detailed knowledge and research training in one of the related sciences without sacrificing the customary requirements for either degree. A student interested in the combined program must apply simultaneously to the College of Medicine and the College of Graduate Studies.

Requirements for Entrance. The MCAT and a minimum of three years of college (90 semester hours) are required. Preference is given to applicants who have completed four years of college and earned a baccalaureate degree. There are no specific course requirements. Students are advised to construct courses of study that are intellectually interesting and challenging for them individually. Any education that engenders curiosity and enthusiasm for learning is desirable. Students who choose to major in a science should select a broad range of studies outside the sciences as well.

An Early Acceptance Program is available to academically excellent residents of South Carolina. Application may be made after the freshman year but before the senior year in college. Selection criteria are based on Scholastic Aptitude Test (SAT) scores and college GPA. Once accepted into the program, college sophomores and juniors, free of the necessity to concentrate on science subjects in order to compete for regular admission, are encouraged to obtain as broad a college education as possible.

Selection Factors. Selection is based on a total evaluation of the student. Objectively derived data allowed the College of Medicine to set a lower limit of academic performance in college (MCAT scores and GPA). Students who score above this limit are not at high risk of academic failure in medical school. Students above this minimum are placed in a selection pool and are scheduled for interviews. Acceptance into medical school from the selection pool is based on evaluation of noncognitive traits and personal characteristics that are desirable in future physicians. These traits include emotional stability, integrity, intellectual honesty, enthusiasm, brightness, and genuine concern for others. Nonresident applications are considered, but because of limited facilities, superior credentials are necessary for acceptance. Application through the Early Decision Program is encouraged, and early decision is granted to students across the entire spectrum of acceptable candidates. The school does not discriminate on the basis of race, creed, national origin, sex, age, or handicap in its admission, employment, and educational activities and programs.

Financial Aid. Scholarship funds, including some state scholarships, are available to entering freshmen. Loan programs are also available.

First-year students are discouraged from seeking outside employment. A number of externships and student assistantships in research laboratories are usually available to upperclassmen.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee after screening: $25
Oldest MCAT scores considered: 1977
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
A $50 matriculation fee is due with response to acceptance offer; refundable prior to May 15, 1991
Estimated number of new entrants: 125 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Resident: $4,410
  Nonresident: $8,820

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	280	917	1,197
Applicants Interviewed	225	27	252
New Entrants*	120	9	129†

*89% took the MCAT (students entering through the Early Acceptance Program are not required to take the MCAT); 100% had baccalaureate degrees.

†Of this total, 4 are M.D./Ph.D. students.

University of South Carolina School of Medicine

Dr. J. O'Neal Humphries, Dean
Dr. Robert F. Sabalis, Senior Associate Dean for Student Programs
Marian Leland, Assistant Dean for Student Services

Address inquiries to:
Senior Associate Dean for Student Programs
University of South Carolina
School of Medicine
Columbia, South Carolina 29208
(803) 733-3325

General Information. The University of South Carolina School of Medicine was established in 1974 by the South Carolina General Assembly in conjunction with the Veterans Administration. The School of Medicine graduated its first class in May 1981. Administrative offices, faculty offices, and research laboratories are located at the newly renovated facilities adjacent to Dorn Veterans Hospital. First- and second-year course work is being taught in new classroom and laboratory facilities at the 93-acre Veterans Administration complex adjacent to the School of Medicine library.

Clinical instruction is provided at Richland Memorial Hospital, a 600-bed community hospital; the William S. Hall Psychiatric Institute, a nationally recognized teaching institute; the Moncrief Army Hospital, a 450-bed short-term general hospital; and the 400-bed Dorn Veterans Hospital. These facilities provide an ample number of teaching beds as well as extensive outpatient facilities. Other outpatient and clinical facilities in community settings throughout South Carolina are available. Thus, students have an opportunity to learn and be involved in patient care in a variety of health care facilities.

Curriculum. The School of Medicine offers a program of study designed to provide education and training in the art and science of the practice of medicine. A variety of opportunities and an array of choices are presented to students which may lead them to different careers within the field of medicine, such as family practice, specialization, academic medicine, clinical research, or research in any of the biomedical sciences. Each of the first two years of the regular four-year medical program consists of two academic semesters composed primarily of required basic science courses. At the same time, the student is introduced to the basic characteristics of the physician-patient relationship through a family medicine continuum and an introduction to medicine series. The correlation between basic and clinical science information is emphasized throughout the four-year curriculum. The third year consists of required clinical clerkships in medicine, surgery, pediatrics, obstetrics/gynecology, family medicine, and psychiatry. The fourth year is devoted to advanced clinical work, both elective and required. During this time, students have the opportunity to strengthen their clinical skills and pursue individual academic interests and career goals in preparation for a lifelong study in medicine. These elective experiences may encompass the entire spectrum of the medical school experience from the basic sciences to various medical and surgical specialties and from teaching to research to patient care.

Requirements for Entrance. The MCAT and the equivalent of three years of undergraduate work are required. Strong preference is given to those applicants who will have earned their baccalaureate degree prior to matriculation. Specific minimum course work requirements are:

	Sem. hrs.
General biology or zoology (with lab)	8
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
College mathematics	6
A minimum of college algebra and calculus are recommended.	
English composition and literature	6

The science and mathematics requirements must be acceptable for continued study by departmental majors.

With the exception of these specific courses, applicants are encouraged to pursue their personal educational interests without regard to any major field of study. Quality of course work rather than the field in which it is taken is the most important consideration.

Selection Factors. The selection process involves the comparative evaluation and review of all available application data, including MCAT scores, undergraduate academic performance, comments contained in letters of recommendation, and the results of personal interviews with members of the Admissions

Committee. The opportunity for admission is greatest for legal residents of South Carolina. Competitive nonresidents must have superior credentials. The ultimate selection of a student is based upon a total and comparative appraisal of the applicant's suitability for the successful practice of medicine.

The AMCAS application is used for preliminary screening. After this initial review, the Admissions Committee may request the applicant to submit additional material for the final application, such as letters of recommendation, personal essay, and a photograph, as well as extend an invitation for personal interviews at the medical campus in Columbia. Each applicant is evaluated on the basis of individual qualifications without regard to age, race, creed, national origin, sex, or handicap.

Financial Aid. Limited funds are available for loans and scholarships; however, the Office of Student Services makes every effort to provide information and assistance to help students meet their financial obligations. Ultimate responsibility for arranging the financing of medical education must rest with the student. First-year students are not permitted to seek outside employment during the academic year. Participation in outside employment by upperclassmen must have the approval of the dean for student programs.

Information for Minorities. The senior associate dean for student programs actively encourages applications from minority groups throughout South Carolina.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee after screening: $20
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 72 (12 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Resident: $4,800
  Nonresident: $11,000

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	222	684	906
Applicants Interviewed	128	91	219
New Entrants*	56	15	71

*100% took the MCAT; 97% had baccalaureate degrees.

University of South Dakota School of Medicine

Dr. Robert C. Talley, Dean
Dr. Raymond J. Lynn, Dean for Student Affairs
Cathy Meyer, Administrative Assistant

Address inquiries to:
Office of Student Affairs, Room 105
University of South Dakota
School of Medicine
414 East Clark Street
Vermillion, South Dakota 57069-2390
(605) 677-5233

General Information. The School of Medicine was established in 1907 as a two-year school for the basic medical sciences and has been in continuous operation since that time. The school was physically expanded in 1960 and again in 1969 and houses modern teaching facilities, research laboratories, and the medical library, including the Health Resource Library for South Dakota.

In 1974 a degree-granting program was funded by the state legislature. The first junior class of 40 students entered in May 1975 at two clinical training centers, one in Yankton and the other in Sioux Falls. Both centers are within 60 minutes of Vermillion. A clinical training center in Rapid City has been added, and the junior class has been expanded to 50 students. The primary objective of the medical school is the training of family practice physicians for South Dakota.

Curriculum. A thorough knowledge of the basic medical sciences is emphasized during the first two years. An understanding of these basic concepts provides fundamental knowledge of the human body and hence a rational approach to the diagnosis and treatment of disease. Second-year students are also introduced to patients in the affiliated hospitals. The junior year consists of six major clerkships—family medicine, internal medicine, surgery, obstetrics/gynecology, psychiatry, and pediatrics. Four-week clerkships in emergency medicine, family medicine, and several surgery specialties are required in the senior year with a variety of other clerkships available on an elective basis. Each medical student finishing the first two years at the School of Medicine is required to spend the last four weeks of the sophomore year with a preceptor who is a primary care practicing physician in a South Dakota community.

Student progress is recorded each semester using the conventional letter grading system (A, B, C, D, F).

Requirements for Entrance. The MCAT and at least three years of college are required. The baccalaureate degree is very desirable. Each applicant must have completed at least 64 semester hours from an accredited college to be considered for admission and have completed at least 90 semester hours to be admitted. The following courses are required, although specific courses may be waived under extenuating circumstances:

	Years
General biology or zoology (with lab)	1
General chemistry (with lab)	1
Organic chemistry (with lab) or second semester biochemistry	1
General physics (with lab)	1
College mathematics	1

Analytical geometry and calculus are preferred.

All science courses should involve extensive lab work. Chemistry courses should include qualitative analysis and the study of aliphatic and aromatic compounds.

Additional courses in genetics, embryology, and computer science are recommended.

All required courses should be the same courses taken by majors in each area. Applicants are encouraged to arrange their premedical studies around an undergraduate major. Students are free to choose a major since there is no discrimination on the basis of field of study.

The MCAT should be taken no later than the fall of the year of application to avoid delay of consideration. No application is reviewed until the AMCAS application, letters of recommendation, and supplementary application have been received.

Selection Factors. Applicants are chosen on the basis of intellect, character, and motivation. Information about the applicant considered by the Committee on Admissions includes: academic achievement as indicated by all of the student's scholastic records; retentiveness and ability to perform under pressure as reflected by MCAT scores; curiosity, learning habits, and fitness for a career in medicine as viewed by the applicant's former instructors; and assessments of personal factors of the applicant as determined by interviews conducted by the Committee on Admissions.

Accepted applicants for the 1989 entering class had the following credentials: *science GPA,* 3.28; *nonscience GPA,* 3.49; *total/overall GPA,* 3.39; *sex,* 43 percent women; *undergraduate major,* 85 percent in science and 15 percent in nonscience.

The school does not discriminate on the basis of race, sex, creed, or national origin. Preference is shown to legal residents of South Dakota.

Financial Aid. Economic status plays no role in the admissions process. Low-interest loans are available to students on the basis of demonstrated financial need. Applications from freshman medical students for this financial aid are considered only after fall classes begin. Students are discouraged from seeking outside employment during academic periods. Approximately 88 percent of the student body receive financial aid.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee after screening: $15
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Dec. 15, 1990
  Latest date: Mar. 15, 1991

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: June 1, 1991
Estimated number of new entrants: 50
Starting date: Aug. 6, 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $6,355
  Nonresident: $13,125

Student fees: $1,085

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	75	308	383
Applicants Interviewed	73	38	111
New Entrants*	33	13	46

*100% took the MCAT and had baccalaureate degrees.

East Tennessee State University
James H. Quillen College of Medicine

Dr. Paul E. Stanton, Jr., Vice President for Health Affairs and Dean
Edwin D. Taylor, Assistant Dean for Admissions and Records
Marion L. Campbell, Director for Financial Aid

Address inquiries to:
Assistant Dean for Admissions and Records
East Tennessee State University
Quillen-Dishner College of Medicine
P.O. Box 19,900A
Johnson City, Tennessee 37614-0002
(615) 929-6219

General Information. The Quillen College of Medicine is an active and integral part of the East Tennessee community. It is located on the main university campus in Johnson City and on the grounds of the U.S. Veterans Administration Medical Center, Mountain Home (adjacent to the university), with additional instructional facilities located throughout the Tri-Cities (Bristol, Kingsport, and Johnson City). The Quillen College of Medicine provides a community-based program with an emphasis on the education of primary care physicians. Formal affiliations are held with five teaching hospitals in the Tri-Cities area. These hospitals are the Mountain Home Veterans Administration Medical Center, the Johnson City Medical Center Hospital, and Woodridge Hospital in Johnson City; the Bristol Memorial Hospital in Bristol, Virginia/Tennessee; and the Holston Valley Hospital and Medical Center in Kingsport. Clinical instruction is also provided at the East Tennessee State University (ETSU) family health centers in Johnson City, Kingsport, and Bristol. Through these affiliated hospitals, students at ETSU have the availability of approximately 2,000 patient beds. In keeping with local demand and the rapid advancement of technology, several of these hospitals are currently either planning or executing major expansion projects. The area population served by these affiliated hospitals is in excess of one million people.

Through its diverse resources, the James H. Quillen College of Medicine is striving to meet selected community and regional health needs.

Curriculum. The primary objective of the College of Medicine is to prepare students who will be well grounded in the sciences and art of medicine and, at the completion of their training, be capable of continuing in postgraduate (residency) training. The major strengths of the curriculum include a wide range of well presented educational experiences, a commitment to primary care education, varied patient populations and hospitals, small class size, and a highly diversified faculty. A combination of departmental and interdisciplinary curricula is under the constant surveillance of the Curriculum Committee. Student input is a key factor in continuing curriculum development.

The first two years of the curriculum are devoted to the study of the basic medical sciences, with an orientation to clinical applications providing an early introduction to patient care. The third and fourth years provide expanded experience in clinical settings. Flexibility is attained by allowing a portion of the scheduled curriculum for elective courses, including research and advanced clinical studies.

Requirements for Entrance. The MCAT and a minimum of three years of college are required. The equivalent of 90 semester hours of credit, applicable toward a B.A. or B.S. degree at a regionally accredited institution, is the minimum requirement, although most selected students complete the entire four years. Specific required courses are:

	Sem. hrs.
Biology (with lab)	8
General or inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
Physics (with lab)	8
Communications skills courses	9

Applicants are urged to follow their personal interests in developing their premedical courses of study with the exception of the courses noted above. Major studies in the humanities or in the sciences are equally acceptable. CLEP credit in any of the required premedical courses is acceptable, provided that one or more advanced courses in the same area are successfully completed later.

Selection Factors. Admission to the College of Medicine is based upon a competitive selection process involving those applicants who meet the minimum requirements for admissions consideration. The responsibility of the Admissions Committee is to select those students who they believe are the best qualified for, and will most benefit from, the program of medical education and, more importantly, those who give the promise of being not merely satisfactory medical students but also capable, responsible physicians of high ethical standards. The Admissions Committee screens applicants on the basis of academic achievement, MCAT scores, letters of recommendation, pertinent extracurricular research and work experiences, and evidence of nonscholastic accomplishments.

At the completion of a general screening the Admissions Committee may request supplementary information and a personal interview with the applicant. Interviews are held only on the campus and are at the applicant's expense.

Because the College of Medicine is a state-supported institution, preference for admission will be given to residents of the state of Tennessee who are U.S. citizens. In addition, the College of Medicine gives preference to veterans of U.S. military service (Public Law 92-451) and to applicants who will have received at least a baccalaureate degree from a regionally accredited institution before admission to the college. All preferences are applied conjunctively.

Some characteristics of the students accepted for the 1989 entering class were: *mean GPA,* 3.22; *mean MCAT score,* 7.7; *sex,* 25 percent women; *minorities,* 6 percent.

Financial Aid. The need for student financial assistance is not a consideration in the selection process. The objective of the school is to provide financial assistance to students who could not pursue a medical education without such assistance. Scholarships, grants, and loans are available for students who demonstrate need as defined by a federal needs analysis and who meet the specific criteria set forth by the various agencies.

Personnel in the Financial Aids Office function in an advisory capacity in housing and employment matters for students and their spouses.

Further information may be obtained by writing directly to the assistant director for financial aid.

Information for Minorities. The College of Medicine actively seeks applicants of both sexes and members of minority groups. A limited number of state grants are available for black matriculants who are residents of Tennessee. Support services are available to minority matriculants to assist in the timely completion of the medical curriculum. ETSU does not discriminate on the basis of race, sex, creed, national origin, age, or handicap. The university is an equal opportunity/affirmative action employer.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee after screening: $15
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 14 days
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 60 (6 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $6,522
  Nonresident: $10,410
Student fees: $398

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	298	439	737
Applicants Interviewed	182	20	202
New Entrants*	52	4	56

*95% took the MCAT; 93% had baccalaureate degrees.

Meharry Medical College
School of Medicine

Dr. Louis J. Bernard, Dean
Ottie L. West, Director, Admissions and Records
George McCarter, Director, Student Financial Aid

Address inquiries to:
Director, Admissions and Records
Meharry Medical College
School of Medicine
1005 D. B. Todd, Jr. Boulevard
Nashville, Tennessee 37208
(615) 327-6223

General Information. Meharry Medical College was founded in 1876 as the Medical Department of Central Tennessee College and became an independent institution in 1915. Meharry includes the schools of medicine, dentistry, graduate studies and research, and allied health.

Basic science instruction and research is carried out in the Harold D. West Basic Sciences Center. Clinical teaching facilities include the George W. Hubbard Hospital and the Community Mental Health Center. In addition, clinical instruction is carried out at the Murfreesboro Veterans Administration Hospital and a number of affiliated hospitals and clinics.

The provision of primary care, particularly in medically underserved areas, is a special emphasis, as is biomedical research into areas of concern to underserved populations.

Curriculum. The curriculum consists of two parts: the preclinical and the clinical years. The preclinical years begin with anatomy, biochemistry, physiology, and behavioral sciences during the freshman year; they conclude with pharmacology, microbiology, pathology, pathophysiology, introduction to clinical medicine, behavioral sciences, and medical genetics during the sophomore year.

The clinical years are treated in two distinctive units. The third-year students complete six 7-week blocks in internal medicine, surgery, pediatrics, obstetrics-gynecology, and psychiatry/family and community health. The fourth-year students take three 4-week blocks of surgery, pediatrics, and radiology; two 4-week blocks in internal medicine; and three 4-week blocks of guided electives.

Internally and externally derived examinations are used in a variety of ways to evaluate students' performance. A letter grading system (A, B, C, E, F) is used.

Requirements for Entrance. The MCAT is required. The baccalaureate degree is desirable; however, three years of college work is acceptable. Premedical work must include:

	Sem./Qtr. hrs.
General biology or zoology (with lab)	8/12
General chemistry (with lab)	8/12
Organic chemistry (with lab)	8/12
General physics (with lab)	8/12
English	6/9

Applicants are urged to take the MCAT in the spring of the year of application to permit earlier consideration of their applications.

Selection Factors. Applicants are selected on a competitive basis with regard to cognitive and noncognitive skills which denote probable success in medical school. Performance in the basic science prerequisite subjects (general biology, inorganic chemistry, organic chemistry, and physics) and MCAT scores form the basis for screening for the interview process in which the noncognitive aspects of the applicant are assessed. Meharry accepts students from all parts of the country, with preferential consideration given to equally qualified applicants from states that contract to subsidize the education of their citizens at Meharry. While special empathy is held for minority and disadvantaged applicants of all origins, Meharry Medical College seeks to attract a wide demographic, cultural, and educational population to reflect the caliber of social interchange in which the eventual practice of medicine will occur.

Early Decision Program applicants must have their complete application on file by August 1 for consideration.

Meharry Medical College does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

Financial Aid. Financial aid awards are based on analyses of student needs and academic achievement. The limited financial aid program includes scholarships, grants-in-aid, loans, and fellowships.

Because of fluctuation in federal and private support for financial aid programs, the types and amounts of awards are revised and adjusted on a continuing basis. Therefore, it is necessary for applicants to plan their financial program as carefully as their academic program.

Information for Minorities. For over 114 years, Meharry has produced a large percentage of the minority health professionals in the United States and abroad. Of the 1989 entering class, 48 percent were women and 86 percent were minority students.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee after screening: $25
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 80 (10 EDP)
Starting date: June 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $11,000

Student fees: $950

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	116	2,027	2,143
Applicants Interviewed	22	308	330
New Entrants*	14	66	80

*100% took the MCAT; 66% had baccalaureate degrees.

University of Tennessee, Memphis College of Medicine

Dr. Robert L. Summitt, Dean
Dr. Hershel P. Wall, Associate Dean
for Admissions and Students
Leroy O. Moore, Assistant Dean for Students
and Director of Admissions

Address inquiries to:
Director of Admissions
University of Tennessee, Memphis
College of Medicine
790 Madison Avenue
Memphis, Tennessee 38163
(901) 528-5559

General Information. Founded in 1851, the College of Medicine, the colleges of dentistry, pharmacy, nursing, allied health, and the Graduate School of Health Sciences comprise the University of Tennessee, Memphis. Within the 41-acre campus, there are over 6,000 patient beds and 15 hospitals and clinics affiliated with the University of Tennessee College of Medicine, including the University of Tennessee William F. Bowld Hospital, St. Jude's Children's Hospital, LeBonheur Children's Hospital, Veterans Administration Hospital, Baptist Memorial Hospital, Regional Medical Center, LePasses Rehabilitation Center, and Campbell's Clinic.

Curriculum. The course of study at the University of Tennessee College of Medicine is designed to develop knowledge, skills, and attitudes appropriate to all doctors of medicine. It is sufficiently broad to allow the graduates to enter any of the several kinds of graduate training programs designed for primary care specialties, medical and surgical specialties, or research and academic pursuits.

The medical curriculum is a 45-month program divided into two major classifications: (1) biomedical science and (2) clinical clerkships and electives. The biomedical science portion of the curriculum includes, during the first year, traditional medical school courses such as gross anatomy, histology, embryology, biochemistry, genetics, physiology, health promotion, neuroanatomy, and behavorial science. The second year includes microbiology, pharmacology, neuroscience, pathology, pathophysiology, preventive medicine, nutrition, and introduction to clinical skills. Students may elect to take three years for the biomedical science portion of the curriculum (optional expanded academic program). Application may be made at matriculation or in the first academic year.

The clerkship and the elective portion of the curriculum consist of 20 months of required and elective experiences. In general, students proceed from the biomedical sciences portion of the curriculum to the junior year of clerkship rotations. Selected clerkships and electives may be taken at the Clinical Education Center in Chattanooga or Knoxville. Junior year clerkships include rotations in medicine, surgery, pediatrics, obstetrics-gynecology, and psychiatry. The senior year consists of the neurology clerkship, the family medicine clerkship, a one-month junior internship, and five months of electives.

All students enrolled in the College of Medicine are required to pass both Part I and Part II of the NBME examinations as candidates.

Requirements for Entrance. A minimum of 90 semester hours or 135 quarter hours and the MCAT are required. However, with rare exception, the completion of an undergraduate degree will be necessary in order to meet educational expectations. The Committee on Admissions is particularly impressed by students whose education has provided a broad range of intellectual experience, including opportunities for analytical thinking and independent study. Also, because of the relevance of a broadly based education to success in medical school, students are encouraged, regardless of major chosen, to take as many courses in the humanities, fine arts, and social sciences as possible. Furthermore, prospective candidates are strongly encouraged to major in their area of greatest interest; there is no requirement that a student major in the sciences. The required courses are:

	Sem./Qtr. hrs.
Biology (with lab)	8/12
Must include 4 sem./6 qtr. hrs. of zoology.	
Inorganic chemistry (with lab)	8/12
Organic chemistry (with lab)	8/12
General physics (with lab)	8/12
English composition and literature	6/9
Electives	52/78

Selection Factors. The criteria the Committee on Admissions uses in the selection process are the academic record, MCAT scores, preprofessional evaluations, and personal interviews. The required personal interviews by members of the Committee on Admissions provide the candidates with an opportunity to review their curriculum and extracurricular activities. More importantly, the interviewers gain insights into the character of the applicants as well as how they have formulated individual plans for the study and practice of medicine.

Applications are accepted from a nine-state region consisting of Tennessee and its contiguous states (Mississippi, Arkansas, Missouri, Kentucky, Virginia, North Carolina, Georgia, and Alabama). In addition, children of the University of Tennessee alumni may apply regardless of their state of residence. Since priority is given to qualified Tennesseans, out-of-state applicants must possess superior qualifications to be considered by the Committee on Admissions.

Some characteristics of the 1989 entering class were: *mean GPA,* 3.5; *mean MCAT scores, B*-9, *C*-9, *P*-9, *SP*-9, *SA:R*-9, *SA:Q*-8.

Financial Aid. Various loan funds and federal scholarships are available for students who have demonstrated financial need. The College Scholarship Service is utilized in the determination of need. (See Chapter 6 for details.) Information packets concerning all available financial assistance are mailed to students accepting an appointment to a class. The Doggett, Gooch, and Killefer scholarships are competitive and include a full tuition stipend awarded for each of the four years in school. Loans and scholarships are used in combination whenever possible. Part-time employment during the first two years is discouraged.

Information for Minorities. The University of Tennessee College of Medicine seeks applications from members of minority groups underrepresented in medicine. The Committee on Admissions evaluates nonacademic as well as academic factors in the selection process, with consideration being given to the unique backgrounds and problems of minority and disadvantaged applicants. Academic support and retention programs are provided for students from minority and/or disadvantaged backgrounds. Minority scholarships of $10,000 are available to black students who are Tennessee residents. For residents of contiguous states, scholarships are also available annually.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $25
Oldest MCAT scores considered: 1985
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: April 15, 1991

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 150
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $6,456
  Nonresident: $10,344

Student fees: $345

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	393	167	560
Applicants Interviewed	243	65	308
New Entrants*	138	12	150

*100% took the MCAT; 98% had baccalaureate degrees.

Vanderbilt University
School of Medicine

Dr. John E. Chapman, Dean
Dr. V. S. LeQuire, Chairman, Committee for Admissions
Vicky L. Cagle, Director of Financial Aid

Address inquiries to:
Office of Admissions
209 Light Hall
Vanderbilt University
School of Medicine
Nashville, Tennessee 37232-0685
(615) 322-2145 / FAX 343-7286

General Information. Founded in 1873, Vanderbilt University School of Medicine is a privately endowed, nondenominational institution. The School of Medicine is situated on the main campus of the university.

Curriculum. Medical education at Vanderbilt is oriented toward promoting the maximum intellectual development of students and equipping them with the disciplined approach, knowledge, and skills required of both a physician and scientist. The curriculum provides the student with a fundamental knowledge of basic medical principles, but flexibility is stressed. Changes in curriculum content and teaching methods continually evolve from Vanderbilt's focus upon new ways to assist students in their preparation for a lifetime of learning. While sufficient structure is maintained for adequate guidance, the curriculum offers a productive blend of required and elective courses throughout all four years of the program.

Vanderbilt requires students to develop their full intellectual talents and places great emphasis upon acquiring a sympathetic understanding of the behavior of the human being in health and sickness. The school's educational philosophy is comprehensive, encompassing the entire span of medicine. In addition to providing a thorough basic education, the curriculum is designed to emphasize the relationship of emotional, social, and environmental factors to medical disorders.

To provide a well balanced exposure to both clinical and research experiences, Vanderbilt allows students wide latitude in their learning process and encourages self-motivation. Fellowship experience is available for selected students during the summer and elective periods. The Vanderbilt Medical Scientist Training Program in the Biomedical Sciences allows the student to engage in research and study in a basic discipline while pursuing studies toward the M.D. degree. For interested select students, this combined M.D.-Ph.D. program broadens the scope of training so that graduates may choose to assume positions of responsibility and leadership as investigators and medical educators. Most combined M.D.-Ph.D. students find it advisable to complete two years of medical school course work prior to entering joint M.D.-Ph.D. studies at which time a better informed decision can be made regarding career emphasis and direction.

The School of Medicine is organized to ensure opportunity for excellence by providing unusual opportunities for close association with the faculty.

Requirements for Entrance. The MCAT is required. A bachelor's degree is recommended, and most successful candidates have earned the bachelor's degree by the time they enroll in the medical school. Required courses are:

	Sem. hrs.
Biology and/or zoology (with 4 hrs. of lab) Not more than half may be in botany.	8
Inorganic chemistry (with 2 hrs. of lab)	8
Organic chemistry (with 2 hrs. of lab) Must cover aliphatic and aromatic compounds.	8
Physics (with 2 hrs. of lab)	8
English and composition	6

No preference is given to any one college major. Besides meeting the specific requirements, students should devote their time to strengthening their educational foundation of fundamental knowledge and broadening their cultural background.

Selection Factors. Applications are invited without limitation with regard to race, sex, creed, national origin, handicap, or state of residence. Women and members of ethnic minority groups are especially invited to apply. Applications are reviewed in two stages. The initial review is made from material provided through AMCAS. Competitive strength of credentials reflecting preparation for medical studies, motivation, personal qualities, and educational background, as these relate to career promise in medicine, is evaluated by the Admissions Committee and determines the recipients of final applications. Applicants receiving favorable initial review are invited to file a final application, which requires a

$50 application fee, except in demonstrated circumstances of serious financial hardship. These applicants are interviewed by a faculty member or a regional representative of the committee.

Financial Aid. Limited scholarships, fellowships, loans, and other financial aid are available. Most scholarships, awards, and all loans are given on the basis of demonstrated financial need. The Justin Potter Scholars Program selects scholars on a competitive basis of academic achievement and general excellence. The Catherine Easterling Mountcastle Scholars Program, the William R. DeLoache Scholars Program, and the G. Canby Robinson Scholars Program use a combination of academic excellence and financial need as the basis for selection of scholars.

Students selected for medical study at Vanderbilt should give careful attention to financial planning and are expected to utilize their own financial resources to the fullest extent possible. Financial aid will be heavily related to available federal programs.

The telephone number for the financial aid office is (615) 343-6310.

Information for Minorities. Vanderbilt invites applicants from a broad spectrum of student backgrounds to submit application for admission. Applications are sought from members of groups presently not adequately represented in medicine who feel a commitment to helping resolve the special problems of health care delivery to minority and underprivileged groups.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $50
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 97
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $13,500

Student fees: $750

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	176	2,814	2,990
Applicants Interviewed	55	520	575
New Entrants*	14	82	96

*99% took the MCAT; 100% had baccalaureate degrees.

Baylor College of Medicine

Dr. William T. Butler, President
Dr. Bobby R. Alford, Executive Vice President and Dean of Medicine
Dr. Zenaido Camacho, Associate Dean

Address inquiries to:
Office of Admissions
Baylor College of Medicine
One Baylor Plaza
Houston, Texas 77030
(713) 798-4841

General Information. Baylor College of Medicine is a private, nonsectarian institution governed by an independent Board of Trustees of community leaders. Baylor College of Medicine is the academic center around which the 356-acre Texas Medical Center was developed. The Baylor faculty currently is composed of 1,228 full-time members and another 1,829 on a part-time and voluntary basis. Facilities include teaching and research buildings and eight affiliated teaching hospitals (including private, city-county, and Veterans Administration hospitals) which together have more than 4,000 beds. The Texas Medical Center is located in a university, residential and park area in the southwest section of Houston.

Curriculum. The goal of the Baylor College of Medicine is to provide a firm foundation in the basic and clinical medical sciences which will enable students to pursue whatever type of professional activity they desire as physicians and upon which they may build during the remainder of their professional life. The college maintains a four-year curriculum but provides: (1) the option to complete the requirements for the M.D. degree in a shorter period of time; (2) a significant amount of time in elective courses or clerkships; (3) flexibility in planning the sequence of clinical activities; (4) an option to take basic science electives during the clinical years; and (5) the opportunity to do research or to apply for a combined M.D.-Ph.D. program. The basic sciences are taught in slightly more than one and one-half years (five 8-week and two 7-week blocks). Study and vacation periods are scheduled between each of these blocks. There are 68 weeks of required clinical clerkships and 28 weeks of elective experience. Approximately 500 discrete electives are available at Baylor. Others are available in the Texas Medical Center.

Requirements for Entrance. The MCAT is required. Applicants are strongly advised to take the MCAT in the spring of the year of application and to have their science course requirements completed at the time of application.

The baccalaureate degree is highly desirable. In recent years very few students matriculated without a baccalaureate degree. Applicants must have satisfactorily completed a minimum of 90 semester hours (or an equivalent number of quarter hours) at a fully accredited college or university in the United States prior to enrollment. Courses must include:

	Years
General biology (with lab)	1
General chemistry (with lab)	1
Organic chemistry (with lab)	1
General physics (with lab)	1
English	1

Selection Factors. All applicants offered places in the class are interviewed on the Baylor College of Medicine campus. The Admissions Committee selects for interview applicants whose files are complete and who are considered to be competitive for admission. All information available is utilized in the selection process. In evaluating the applicant's academic record, attention is paid to course selections, academic challenge imposed by the student's curriculum, academic standards of the institutions attended, and the extent to which extracurricular activities and employment may have limited the applicant's opportunity for high academic achievement.

Intellectual ability and academic achievement alone are not sufficient to support the development of the ideal physician. To work effectively in a profession dependent upon interpersonal relationships, physicians should possess those traits of personality and character which permit them to communicate effectively with warmth and compassion.

There are 168 students in each first-year class; approximately 70 percent are residents of Texas. Foreign students will be considered if they have completed all of their undergraduate college studies in a fully accredited college or university in the United States.

Requests for deferred entrance (delayed matriculation) from accepted students will be considered but are not encouraged. Such requests must be in writing and will be reviewed on an individual basis.

Students matriculating in 1989 had the following credentials: *mean GPA*, 3.6; *sex*, 37 percent women; *undergraduate major*, 75 percent in sciences, with the remainder from a variety of fields.

Baylor College of Medicine does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

Financial Aid. Financial need is not a factor in the selection of students. All aid is based on financial need. Aid funds are provided by private donors, the Board of Trustees, and various state and federal loan and scholarship programs. Employment for spouses and part-time employment for students is available. Students are encouraged to seek out all available sources of financial assistance prior to enrollment as funds are limited. Financial aid information is sent to all accepted applicants upon request. A financial aid officer is available for consultation with students and parents.

Information for Minorities. Baylor College of Medicine encourages applications from members of groups not adequately represented in medicine.

Minority students comprise a substantial portion of the student body, and there are minority members on the Admissions Committee.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $35
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $300, due May 1, 1991; nonrefundable
Estimated number of new entrants: 168 (6 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $5,463
  Nonresident: Available upon request

Student fees: $708

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	861	727	1,588
Applicants Interviewed	425	211	636
New Entrants*	120	48	168

*100% took the MCAT; 99% had baccalaureate degrees.

Texas A&M University College of Medicine

Dr. Richard A. DeVaul, Dean
Dr. William E. Ward, Associate Dean for Admissions and Student Affairs
Tyree H. Newton, Coordinator for Student Affairs

Address inquiries to:
Associate Dean for Admissions and Student Affairs
Texas A&M University
College of Medicine
College Station, Texas 77843-1114
(409) 845-7744

General Information. Establishment of the Texas A&M University College of Medicine was authorized by the Texas Legislature in 1971. The first class of 32 students matriculated in the fall of 1977 and graduated in June 1981. The College of Medicine is headquartered on the main campus of Texas A&M University, a land, sea, and space grant institution with a student enrollment in excess of 40,000. A medical sciences building to house the basic science departments was completed on the College Station campus in 1983. The major clinical facilities are located on the Temple campus at the Scott and White Clinic and Hospital, a 500-bed institution, and the Olin E. Teague Veterans' Center with a 523-bed capacity. The Darnall Army Community Hospital at nearby Ft. Hood provides additional medical resources. Aggregate outpatient visits per year at participating hospitals approach two million. Faculty members of the college, numbering in excess of 600, are located thoughout Central Texas.

The College of Medicine is chartered to grant the degrees of bachelor of science, doctor of medicine, master of science, and doctor of philosophy.

Curriculum. The primary goal of the curriculum is to produce undifferentiated physicians of the highest caliber. A second principal mission is the systematic utilization of the vast intellectual and technological resources available within other disciplines of the parent university in collaborative research and instructional programs.

The College of Medicine offers a four-year program leading to the M.D. degree. The first two years are taught on the Texas A&M University campus in College Station and include, besides the traditional basic science disciplines, instruction in behavioral science, humanities in medicine, and community medicine. Although the faculty is organized along disciplinary lines, courses are scheduled to assure a high degree of integration of subject matter across disciplines. Correlation of the basic sciences with clinical medicine is achieved from the start, with clinical correlation experiences in all courses and regularly scheduled sessions for clinical instruction and practice in both years one and two.

The third- and fourth-year clinical programs, predominantly on the Temple campus at the Scott and White Clinic and Hospital and the Olin E. Teague Veterans' Center, consist of traditional clerkships and a mixed rotation of ambulatory care experiences. In addition, each student spends a minimum of four weeks in an approved family medicine clerkship in a nonurban location.

Electives are available in both basic and clinical sciences. A standardized letter grading system (A, B, C, F) is utilized.

Selected students may participate in the combined M.D./Ph.D. program or enroll in other graduate programs concurrently with studies toward the M.D. degree.

Requirements for Entrance. The MCAT and 60 semester hours of appropriate undergraduate study from an accredited institution are required. Students may apply during their sophomore year. Required courses are:

	Sem. hrs.
General biology (with lab)	8
Additional biology	3
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
General physics (with lab)	8
Calculus	3
English	6

Selection Factors. The Texas A&M University College of Medicine does not discriminate on the basis of race, sex, creed, national origin, age, or handicap. In evaluating applicants, the Committee on Admissions relies heavily on such criteria as grade averages, MCAT scores, college preprofessional committee evaluations or letters of recommendation, and physical and emotional health. Interviews of competitive candidates by members of the Committee on Admissions are held on both campuses. Personal character of the highest order is required along with strong motivation and evidence of high-level performance. Preference is given to Texas residents. Certain students who complete the admissions requirements may be considered for delayed admission for one year. Applications should be submitted no later than November 1 to the associate dean for student affairs.

Some characteristics of the 1989 entering class were: *mean GPA*, 3.39; *total MCAT*, 52; *sex*, 33 percent women.

Financial Aid. Scholarship and loan funds are available to students with financial need from local, state, and national sources. Financial needs of the applicant are not a consideration in the admission process, and after acceptance, every effort is made to assist students in meeting their financial requirements. Approximately 85 percent of the students currently in the program are receiving some form of financial aid.

Information for Minorities. The Texas A&M University College of Medicine seeks qualified applicants from those minority groups underrepresented in medicine in the United States.

Application and Acceptance Policies for 1991-92 First-Year Class

Filing of application
  Earliest date: May 1, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $35
Oldest MCAT scores considered: 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Nov. 15, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 48
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $5,463
  Nonresident: $21,852
Student fees: $795

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	760	53	813
Applicants Interviewed	242	16	258
New Entrants*	47	1	48

*100% took the MCAT; 85% had baccalaureate degrees.

Texas Tech University Health Sciences Center School of Medicine

Dr. Bernhard T. Mittemeyer, Interim Executive Dean
Dr. James A. Chappell, Associate Dean for Academic Affairs
E. Earl Hudgins, Director, Student Financial Aid

Address inquiries to:
Office of Admissions
Texas Tech University
Health Sciences Center
School of Medicine
Lubbock, Texas 79430
(806) 743-2297

General Information. Texas Tech University School of Medicine, established in 1969, is part of the Texas Tech University Health Sciences Center, which also includes schools of nursing and allied health. The Health Sciences Center is headquartered in a new facility on the Lubbock campus of Texas Tech University, which has an enrollment of 24,000 students. As a regional medical school committed to developing opportunities for medical education in the 135,000 square miles of West Texas, the school has regional academic health centers in Amarillo and El Paso, each of which is housed in a new permanent facility. Development of the Permian Basin Regional Academic Health Center in Odessa is underway. All medical students spend the first two years at the Lubbock campus; junior and senior students receive their clinical training in Lubbock, Amarillo, and El Paso. At each academic health center the primary teaching hospital is located in close proximity to the medical school facility. Affiliations with the primary teaching hospital and other community hospitals provide over 2,900 beds for clinical teaching. The medical school has 294 full-time faculty members and over 775 volunteer clinical faculty members.

Curriculum. The four-year curriculum provides a broad introduction to medical knowledge while developing the student's analytical, problem-solving skills. The first two years are divided into four terms, the first four of which are concerned with basic sciences. Introduction to clinical material begins early in the second year with the Introduction to Medicine course which integrates pathophysiology and physical diagnosis. The clinical curriculum includes clerkships in family medicine, internal medicine, neurology, obstetrics-gynecology, pediatrics, psychiatry, and surgery. It also includes experience with family medicine in the community setting. The electives progam consists of five electives chosen by the students in consultation with their advisers.

Research opportunities are available in the summer following the first year and through the Research Honors Program in which the student devotes a full year to research between the second and third years. "Research Honors" is granted upon the successful completion of this program. An integrated M.D./Ph.D. program providing stipends and tuition scholarships to especially qualified candidates is also available.

Students are graded on a numerical system and must maintain a numerical average of 75 for promotion and graduation.

Requirements for Entrance. At least three years of study (90 semester hours) in an accredited college or university are required. However, the completion of four years of college and a B.S. or B.A. degree are highly desirable before entrance into medical school. Students applying without a baccalaureate degree are likely to be accepted only if they have academic records superior to those of students accepted with the baccalaureate degree. They must also exhibit definite evidence of maturity.

Specific course requirements have been kept at a minimum to permit maximum flexibility in the selection of well rounded students. The required courses are:

	Years
Biology or zoology (with lab)	2
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
Physics (with lab)	1
English	1

The MCAT is also a requirement for admission. It is recommended that students take the MCAT in the spring of the year in which application will be made.

Selection Factors. Applications are invited from qualified residents of the state of Texas and the neighboring counties of New Mexico and Oklahoma which comprise the service area of the school. Application forms and procedural information may be obtained directly from the Office of Admissions.

The Admissions Committee carefully reviews the applications of all individuals meeting the entrance requirements. Although evidence of high intellectual ability and a record of strong academic achievement are essential for success in the study of medicine, the committee recognizes that these are not the only qualities necessary for the development of a physician. Compassion, motivation, the ability to communicate with people, maturity, and personal integrity are additional qualities which the committee deems important. There is no discrimination on the basis of race, sex, creed, national origin, age, or handicap.

Personal interviews are offered to those candidates deemed competitive for admission. Interviews are conducted only at the Lubbock campus.

Students in the 1989 entering class had the following credentials: *mean GPA,* 3.2 (range 2.66–3.96); *sex,* 29 percent women; *minorities,* 23 percent, (7 percent Hispanic/Mexican American, 15 percent Asian, 1 percent American Indian); *undergraduate major,* 70 percent in science, with the remainder from a variety of nonscience fields; *residence,* 99 percent Texas residents.

Financial Aid. Financial aid is available for students who demonstrate need. Applications for financial assistance are processed after an applicant has been accepted. Detailed information on the available programs can be obtained from the director of student financial aid. Over 65 percent of the student body receive some type of financial assistance. Employment other than during the summer is discouraged.

Information for Minorities. The School of Medicine encourages qualified minority candidates to apply. Minority students constitute a significant part of the student body, and there are always minority representatives on the Admissions Committee. An expanded 2½-year basic science curricuum is limited to four selected minority students who may not be competitive in the regular admission process.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $30
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  For residents of Texas, eastern New Mexico, and southwestern Oklahoma only
  EDP application period: June 15–Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due April 15, 1991
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 100 (5 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $5,463
  Nonresident: $21,852

Student fees: $509

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	815	3	818
Applicants Interviewed	296	2	298
New Entrants*	95	1	96

*100% took the MCAT; 98% had baccalaureate degrees.

University of Texas
Southwestern Medical Center at Dallas
Southwestern Medical School

Dr. William B. Neaves, Dean, Southwestern Medical School
Dr. Athol Ware, Associate Dean for Student Affairs
Charles L. Kettlewell, Registrar and Director of Student Financial Aid

Address inquiries to:
Office of the Registrar
University of Texas
Southwestern Medical Center at Dallas
5323 Harry Hines Boulevard
Dallas, Texas 75235-9096
(214) 688-2670

General Information. Southwestern Medical School is a part of the University of Texas Southwestern Medical Center at Dallas (formerly the University of Texas Health Science Center at Dallas), which also includes the Southwestern Graduate School of Biomedical Sciences and the Southwestern Allied Health Sciences School. The purpose of the program at Southwestern is to produce physicians who will be inspired to maintain lifelong medical scholarship and who will apply the knowledge gained in a responsible and sympathetic way to the care of patients.

The faculty and staff are keenly aware of the responsibility of the institution to serve the people not only in producing physicians of excellence and humanity but also in acquiring new knowledge.

Curriculum. Southwestern Medical School has maintained a classical four-year curriculum based on departmental as well as interdisciplinary teaching. The purpose of the first two years is to provide a strong background in the basic sciences as well as an introduction to clinical medicine.

The first-year curriculum is designed to begin the study of the normal human body and its processes at the molecular and cellular levels. Biochemistry, cell biology, and genetics and development are presented concurrently for the first portion of the year, building together the concepts of macromolecular and cellular interactions within tissues. The student then begins the study of human anatomy. The spring term is composed of a course in physiology presented in conjunction with an interdisciplinary course in neurosciences. At the completion of the first year, a vertical course in human reproduction and endocrinology provides an overall synthesis, based on the previous course work.

The second year begins a study of disease processes and provides a beginning insight into how man may interfere with those processes therapeutically. The material is presented in a block fashion similar to that of the freshman year. The year begins with microbiology and immunology and concludes with pharmacology. Extending throughout most of the years are pathology and introduction to diseases, which serve to correlate the basic sciences with clinical medicine. Contact with patients begins early in the second year with history-taking and physical examination as well as visits to outpatient clinics. The basic concepts of psychiatry and medical ethics are presented over the first two years in a series of conferences and lectures.

The third and fourth years provide intense clinical experiences involving the student in direct outpatient care. The junior year is composed of 12 weeks of internal medicine, 6 weeks each of psychiatry and obstetrics-gynecology, 8 weeks each of surgery and pediatrics, and 4 weeks of family practice. The fourth year provides a series of one-month clerical clerkships; a required month of neurology; three selectives from the departments of internal medicine, obstetrics-gynecology, surgery, pediatrics, or family practice; a one-month course consolidating medical jurisprudence, medical computing, clinical pharmacology, and other topics; and three months of electives.

Requirements for Entrance. The MCAT and three years (90 semester hours) of accredited college work are required. Minimum course requirements are:

	Years
Biology	2
One year must include lab.	
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
Physics (with lab)	1
Calculus	½
English	1

Although some students with only 90 semester hours credit are admitted each year, preference is given to applicants who have earned the B.S. or B.A. degree.

Sound preparation in basic science is essential, but a broad background in the humanities and an understanding of people and their problems are equally necessary. Applicants are urged to take the MCAT in the spring of the year of application and to complete required course work before applying if possible. A grade average of C must be maintained in each required subject.

It should be noted that application forms and procedural information should be obtained from the University of Texas System Medical and Dental Application Center listed below.

Selection Factors. Applicants are selected on the basis of demonstrated intellectual ability as evidenced by the academic record, performance on the MCAT, evaluation by the faculty of the undergraduate institution attended (preprofessional committee evaluation when available), and letters of recommendation when they reflect experience in the health or scientific fields. Ninety percent of the class must be residents of Texas by state law. Those nonresident applicants who are accepted must have superior credentials and recommendations.

Early application is strongly advised, A personal on-campus interview is required. Invitations for interviews are extended from early September until mid-December.

Financial Aid. Most of the financial aid available is obtained through federal and state programs. A limited number of scholarships from private sources are available. To date, no student has discontinued school for financial reasons.

Information for Minorities. The Admissions Committee at Southwestern Medical School recognizes the need for increased numbers of physicians from racial minorities and encourages applications from Texas residents who are members of these groups.

Application and Acceptance Policies for 1991-92 First-Year Class

Application must be made through the University of Texas System Medical and Dental Application Center, Suite 620, 702 Colorado, Austin, Texas 78701
Filing of application
  Earliest date: April 15, 1990
  Latest date: Oct. 15, 1990
School application fee: None
Application Center fees
  Resident: $35 for application to one school plus $5 for each additional school applied to in the University of Texas system
  Nonresident: $70 for application to one school plus $10 for each additional school applied to in the University of Texas system
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Jan. 15, 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 200
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $5,463
  Nonresident: $21,852
Student fees: $347

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,608	428	2,036
Applicants Interviewed	536	76	612
New Entrants*	172	23	195

*100% took the MCAT and had baccalaureate degrees.

University of Texas
Medical School at Galveston

Dr. George T. Bryan, Dean of Medicine
Dr. Yvonne Russell, Dean of Students
Dr. Billy R. Ballard, Assistant Dean of Student Affairs and Director of Admissions

Address inquiries to:
Office of Admissions
G.210, Ashbel Smith Building, Rt. M-17
University of Texas Medical Branch
Galveston, Texas 77550
(409) 761-3517

General Information. The University of Texas Medical Branch at Galveston was established in 1881 and graduated its first class in 1892. It is a state-owned medical center with the Medical Branch hospitals under direct supervision and administrative control of the staff. Medical Branch hospitals have over 1,200 hospital beds located on the immediate campus. The Shriners Burn Institute, the Marine Biomedical Institute, and the Institute for the Medical Humanities also serve as teaching and research facilities.

Curriculum. The medical curriculum is an integrated program which begins clinical training immediately upon matriculation. The curriculum is divided into the basic science core and clinical medicine. The basic science core is divided into four 16-week terms and completed with 10 weeks of introduction to clinical medicine. Clinical medicine is divided into 50 weeks of required core experience (clerkships) and 36 weeks of elective experience. Each student is assigned a faculty adviser to assist in developing individualized experience in clinical medicine. Electives may be taken either on campus or at other institutions with approval of the faculty adviser. The elective experiences are flexible and can be designed to meet individual career goals. The grading system for the first three academic years is A, B, C, D, F for all core courses and pass/fail for elective courses.

A combined M.D.-Ph.D. degree program with stipend support is available to eligible candidates interested in training preparatory to a career in biomedical research and/or academic medicine.

Requirements for Entrance. The MCAT and a minimum of 90 semester hours of college work including specific courses are required. The baccalaureate degree is highly desirable.

Applicants are encouraged to take the MCAT in the spring of the year of application. Results from the MCAT taken in the spring of the year of anticipated matriculation will not be received in time to be considered. Applicants are encouraged to complete the required courses and/or take the MCAT by the time they submit an application.

The required courses are:

	Years
Biology	2
One year must include lab.	
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
General physics (with lab)	1
Calculus	½
English	1

Science courses should be equivalent to course work required for college science majors. A broad background in the humanities is encouraged.

Selection Factors. All information available is utilized in the selection process. The most significant factors are intellect, achievement, character, interpersonal skills, and motivation. In evaluating candidates, consideration is given to the total academic record, the results of aptitude and achievement tests, college preprofessional committee evaluations, and the personal interview. Only those applicants whose personal qualifications, academic records, aptitude and achievement test scores, and preprofessional evaluations are considered sufficiently competitive are invited for personal interviews. Only U.S. citizens or applicants with permanent visas are considered. Preference is given to legal residents of Texas. Up to 10 percent of the class may be filled with residents of other states.

Accepted applicants for the 1989 entering class had the following credentials: *average GPA,* 3.3; *residence,* 99 percent from Texas.

Financial Aid. Long-term, low-interest loans and short-term loans of varying interest rates are available to students with financial need. A number of scholarships funded by private donors are available. Most of these are based on need; some are based on academic achievement. A number of scholarships are available to minority students. Approximately 45 percent of the enrolled students receive university loans and/or scholarships.

Considerable individual attention is provided to students to help them with their fiscal planning, with debt management, and with exploring the various funding options. The school's policy on student employment allows students to be employed but for not more than 12 hours per week without special permission. There are opportunities for part-time work in the six Medical Branch hospitals and in adjacent hospitals. Employment through the College Work-Study Program is also available. Applications for financial assistance are provided to students who have been accepted for admission and have indicated that they will attend the University of Texas Medical Branch at Galveston. There are no fixed deadlines. Inquiries must be directed to the director, Office of Student Fiscal Planning and Management.

Information for Minorities. The University of Texas Medical Branch at Galveston is committed to increasing the number of minority students in medicine; to that end, active efforts are made to identify and encourage enrollment of qualified minority students. Each minority applicant is reviewed by experienced members of the Committee on Admissions with particular emphasis on the applicant's potential. Both cognitive and noncognitive qualifications are considered. There are no quotas, and all applicants are considered on the basis of individual achievement and promise. Following admission, a broad range of support services are available to assist students in completing the medical curriculum. Specific information about the services provided to minorities, including the Medical School Familiarization Program for premedical students, can be obtained by contacting the Office of Special Programs. The University of Texas Medical Branch does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

Application and Acceptance Policies for 1991-92 First-Year Class

Application must be made through the University of Texas System Medical and Dental Application Center, Suite 620, 702 Colorado, Austin, Texas 78701
Filing of application
  Earliest date: April 15, 1990
  Latest date: Oct. 15, 1990
School application fee: None
Application Center fees
  Resident: $35 for application to one school plus $5 for each additional school applied to in the University of Texas system
  Nonresident: $70 for application to one school plus $10 for each additional school applied to in the University of Texas system
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Jan. 15, 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 200
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $5,463
  Nonresident: $21,852
Student fees: $250

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,631	357	1,988
Applicants Interviewed	1,017	69	1,086
New Entrants*	193	7	200

*100% took the MCAT; 98% had baccalaureate degrees.

University of Texas Medical School at Houston

Dr. John C. Ribble, Dean
Dr. Albert E. Gunn, Associate Dean for Admissions
Sondra M. Ives, Coordinator of Admissions and
Alumni Affairs

Address inquiries to:
Office of Admissions–Room G-024
University of Texas
Medical School at Houston
P.O. Box 20708
Houston, Texas 77225
(713) 792-4711

General Information. The University of Texas Medical School at Houston was authorized in May 1969 by the Texas Legislature. The Medical School is part of the University of Texas system and is the fourth medical school to begin operations under that system.

The Medical School is located in the Texas Medical Center in Houston in order to take advantage of the many other medical institutions in the area. The major teaching hospital is Hermann Hospital, a 650-bed general medical and surgical hospital. Other affiliated hospitals include the University of Texas, M. D. Anderson Cancer Center, St. Joseph Hospital, San Jose Clinic, Southwest Memorial Hospital, and the Lyndon Baines Johnson Hospital, a facility of the Harris County Hospital District.

Curriculum. In September 1977 a four-year educational program was begun. The first two academic years are divided into four semesters. Two months of vacation time are provided for first-year students between the first and second academic years. The initial four semesters are devoted to preparing the student for the specific clerkship experiences that comprise the third academic year. During the first two academic years the student becomes familiar with the basic and applied biomedical sciences. As the student progresses from a study of the morphology of the human body and the fundamentals of molecular and cellular biology to that of the normal and abnormal structure and function of the various organ systems, the techniques of interviewing, history-taking, and performance of physical and mental status examinations are introduced. Appropriate material from the behavioral and social sciences is presented concomitantly, as are opportunities to become familiar with the realities and problems of human medicine and family practice.

After completion of this educational sequence, the student progresses through a series of clinical clerkships in the major clinical disciplines for the next 12 months. In the remaining year, there are two months of required clerkships, six periods of electives, and one period reserved for additional instruction in medical jurisprudence and clinical epidemiology. In consultation with faculty, each student devises an educational sequence that relates specifically to ultimate career goals and postgraduate educational plans.

An expanded grading system was initiated in 1985.

Requirements for Entrance. Students must take the MCAT and complete at least 90 undergraduate credit hours at a U.S. or Canadian university. A baccalaureate degree is highly desirable. The specific premedical credits listed below are required.

	Sem. hrs.
Biology	14
One year must include lab.	
Inorganic chemistry (with lab)	8
Organic chemistry (with lab)	8
Physics (with lab)	8
Calculus	3
English	6

While the applicant should demonstrate aptitude for and achievement in the basic sciences, it is strongly urged that an in-depth experience in some area of the humanities be obtained. Majoring in the liberal arts is encouraged.

Applicants should take the MCAT in the spring of the year of application.

Selection Factors. Applicants are selected on the basis of academic ability, interest in the Medical School at Houston, and personal qualifications. Consideration is given to the overall academic record, with special emphasis being given to depth and broadness, MCAT scores, preprofessional committee evaluations, and personal interviews in evaluating candidates. Significant attention is given to evidence of leadership roles, potentially unique contributions to the medical profession, achievement in a nonacademic field of activity, and specific interest in this medical school. Preference is given to Texas residents. The University of Texas Medical School at

Houston does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

Accepted students for the 1989 entering class had the following credentials: *mean GPA*, 3.36; *sex*, 46 percent women; *residence*, 90 percent from Texas.

Financial Aid. Scholarship and loan funds are available to students with financial need from local, state, federal, and national sources. Financial independence is not a criterion for admission as indicated by the fact that 60 percent of the students presently enrolled have received financial aid.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Application must be made through the University of Texas System Medical and Dental Application Center, Suite 620, 702 Colorado, Austin, Texas 78701
Filing of application
  Earliest date: June 15, 1990
  Latest date: Oct. 15, 1990
School application fee: None
Application Center fees
  Resident: $35 for application to one school plus $5 for each additional school applied to in the University of Texas system
  Nonresident: $70 for application to one school plus $10 for each additional school applied to in the University of Texas system
Oldest MCAT scores considered: 1977
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Jan. 15, 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class: None
Estimated number of new entrants: 202
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $5,463
  Nonresident: $21,852
Student fees: $250

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,619	365	1,984
Applicants Interviewed	887	52	939
New Entrants*	195	7	202

*100% took the MCAT and had baccalaureate degrees.

University of Texas Medical School at San Antonio

Dr. James J. Young, Dean
Dr. Carlos Pestana, Associate Dean for Academic Affairs
Dr. Leonard E. Lawrence, Associate Dean for Student Affairs

Address inquiries to:
Medical School Admissions
Registrar's Office
University of Texas
Health Science Center at San Antonio
7703 Floyd Curl Drive
San Antonio, Texas 78284-7701
(512) 567-2665

General Information. The University of Texas Medical School at San Antonio was created by the Texas Legislature in 1959 as a four-year school of medicine. In late 1972 the Medical School and its fellow institutions, the Dental School and the Graduate School of Biomedical Sciences, were designated the University of Texas Health Science Center at San Antonio. Clinical instruction is carried out at the Medical Center Hospital, Brady-Green Community Health Center, Audie Murphy Veterans Hospital, and affiliate hospitals which include Wilford Hall USAF Hospital, Brooke Army Hospital, the Aerospace Medical Division of USAF, Baptist Memorial Hospital System, and Santa Rosa Medical Center.

Curriculum. A four-year curriculum is offered. The first year consists of 800 contact hours, which are devoted primarily to the traditional basic sciences. The first year also includes a course dealing with the psychosocial dimensions of health care. The second academic year contains about 700 contact hours, of which over 275 are devoted to the basic sciences of pathology and pharmacology. The remaining hours in the second year are devoted to introductory clinical topics in the areas of physical diagnosis, medicine, surgery, obstetrics and gynecology, pediatrics, and psychiatry. The third academic year is spent entirely in the clinical setting in eight consecutive assignments of six weeks each in family practice, medicine, the medical specialties, surgery, the surgical specialties, obstetrics and gynecology, psychiatry, and pediatrics. The senior year includes a clinical experience in ambulatory care and a didactic period of two months, with the rest of the academic year consisting of elective courses. Some time is also available to the students for interviews for postgraduate training or for vacation. A letter grading system is used.

Requirements for Entrance. The MCAT and the equivalent of three academic years (90 semester hours) are required for admission. Courses specifically required (with a grade of C or better) are:

	Years
Biology	2
One year must include lab.	
Inorganic chemistry (with lab)	1
Organic chemistry (with lab)	1
General physics (with lab)	1
Calculus	½
English	1

Science courses should be equivalent to course work as required for college science majors. Candidates are desired who have a broad humanities background.

Selection Factors. Ranking of applicants is done with consideration for GPA, MCAT scores, evaluation by premedical advisers, the candidate's potential relative to society's health care needs, and judgment by the Committee on Admissions of the candidate's academic achievements not reflected by grades, nonacademic achievements, and integrity, maturity, and motivation. No person shall be excluded from participation in, denied the benefits of, or subject to discrimination under any program or activity sponsored or conducted by the University of Texas system on the basis of age, race, national origin, religion, or sex. Although legal residents of Texas are preferred, up to 10 percent of entrants may be nonresidents if their credentials are especially outstanding.

Accepted students for the 1989 entering class had the following credentials: *mean GPA,* 3.41; *sex,* 43 percent women; *residence,* 4 percent nonresidents; *overall acceptance rate,* 321 acceptances were offered to obtain a class of 203 first-year students.

Application forms and any procedural information should be obtained from the University of Texas System Medical and Dental Application Center listed below. This center processes all applications to each medical school in the University of Texas system.

Questions related to completeness of an application or other information should be directed to the Office of Student Services at the Health Science Center.

Financial Aid. Financial assistance for students in need is available in the form of loans and a limited number of scholarships. Student employment, though not encouraged, is permissible provided a satisfactory level of achievement is maintained. Part-time student employment opportunities are available at the Health Science Center as well as in the hospitals located in close proximity. Financial considerations do not influence admission decisions, although the school recognizes that many families are unable to bear the full cost of medical education. Accepted applicants can obtain complete information regarding financial assistance from the financial aid administrator in the Office of Student Services.

Affirmative Action. The Medical School is committed to the recruitment, retention, and graduation of qualified minority applicants. In the selection of these individuals, preference is given to Texas residents. Both the Office of the Medical Dean and the Health Science Center's Office of Student Services through the coordinator of special programs are involved in the process of screening, monitoring, counseling, and advocacy for minority students. More specific information may be obtained from the Office of the Associate Dean for Student Affairs.

Application and Acceptance Policies for 1991–92 First-Year Class

Application must be made through the University of Texas System Medical and Dental Application Center, Suite 620, 702 Colorado, Austin, Texas 78701
Filing of application
  Earliest date: April 15, 1990
  Latest date: Oct. 15, 1990
School application fee: None
Application Center fees
  Resident: $35 for application to one school plus $5 for each additional school applied to in the University of Texas system
  Nonresident: $70 for application to one school plus $10 for each additional school applied to in the University of Texas system
Oldest MCAT scores considered: 1986
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Jan. 15, 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class: None
Estimated number of new entrants: 200
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Resident: $5,436
  Nonresident: $21,852
Student fees: $220

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	1,621	341	1,962
Applicants Interviewed	1,058	59	1,117
New Entrants*	194	9	203

*100% took the MCAT; 99% had baccalaureate degrees.

University of Utah School of Medicine

Dr. Walter Stevens, Interim Dean
Dr. Hiroshi Kuida, Associate Dean, Student Programs
Jane J. Hunt, Director, Student Programs

Address inquiries to:
Millie M. Peterson
Director, Medical School Admissions
University of Utah
School of Medicine
50 North Medical Drive
Salt Lake City, Utah 84132
(801) 581-7498

General Information. The School of Medicine was founded as a two-year school in 1905 and expanded to a four-year program in 1943. It is one of the 17 colleges of the University of Utah. The Health Sciences Center is located on the University of Utah campus and includes schools of nursing, pharmacy, medicine, several centers for special studies, and the University of Utah Hospital.

Curriculum. The undergraduate medical curriculum has been designed to offer a mixture of required and elective courses. This mixture allows each student to acquire a basic knowledge while being able to pursue individual interests. The first two years of medical school offer basic sciences, physical diagnosis, organ system teaching, and a choice of electives. Five clerkships are required during the third year, and the fourth year consists entirely of electives.

Students are graded on a pass/fail system, and opportunities for honor classes are provided as well as increasing opportunities for independent study. There is student representation on all college committees. Students receive guidance and assistance from active and involved offices of student affairs, minority affairs, and student advising and counseling.

Requirements for Entrance. The MCAT is required and must be taken within four years of application. The Committee on Admissions is anxious to admit students with a broad perspective of life. The school believes that the true physican not only is skilled in medicine and the allied sciences but also is a person of culture and broad intelligence.

The applicant must have subject matter competence in the following courses:

	Years
Chemistry (with lab) Must include inorganic and organic chemistry and course work in qualitative and quantitative analysis.	2
General physics (with lab) Heat, light, electricity, and magnetism.	1
English composition and/or basic communication	1

College level work in biology, humanities, and the social sciences is required.

With the exception of advanced placement credit for general chemistry at a level of 4 or 5, CLEP, advanced placement, or home study credit will not be accepted for completion of required course work. These courses must be taken at a college or university in the United States.

Completion of four years of college work and a bachelor's degree are desirable before entrance into the School of Medicine. Rarely, the committee accepts an unusual applicant after three years of college.

Only those students who have completed most of the undergraduate training in a U.S. and Canadian school will be considered.

Selection Factors. Students are considered on the basis of scholarship, evaluation by premedical instructors, and assessment of personality, character, and motivation. The School of Medicine is state supported and is obligated to admit at least 75 Utah residents. The school is a member of the WICHE program and has special arrangements with the states of Idaho and Wyoming to provide four and nine positions, respectively, for qualified residents of these states. Competition for the few remaining nonresident positions is very great. Nonresident applicants (excluding Idaho and Wyoming residents and those who qualify to apply under the affirmative action program for underrepresented minority and intermountain economically disadvantaged students) are required to apply through the Early Decision Program. There is no discrimination because of age, race, creed, or sex, and the selection process is conducted by the same committee for all applicants.

Applications should be filed no later than October 15 through AMCAS. The Admissions Office will notify eligible candidates concerning interview appointments when desired. Final selections are made by vote of the entire committee.

No more than four consecutive applications will be accepted from any one candidate.

Financial Aid. A very limited number of scholarships are awarded each year. Some loan funds are available to students on a long-term, low-interest basis. All awards are based on the student's need as determined by the university's Financial Aids Office. Because of fluctuation in federal support for financial aid programs, it is difficult to determine how much aid the school will be able to continue to give. It should be stressed, therefore, that most students will need to find outside resources for the majority of their financial support. It is necessary for applicants to plan their financial program as carefully as their academic program.

Information for Minorities. Applications are encouraged from blacks, Chicanos, Native Americans, and other disadvantaged students. The school recognizes the shortage of physicians from these groups and is committed to seek qualified applicants. The formal admissions policy takes into consideration academic (GPA and MCAT scores) and nonacademic (motivation, personality, and background) factors. The school uses a group of variables developed by the Association of American Medical Colleges to evaluate interviewed applicants. Likelihood of successful completion of the medical curriculum is a principal consideration.

Once admitted, those whose academic preparation is marginal are recommended to take appropriate supplemental course work, which may include a special basic sciences enrichment course in the summer prior to the regular medical school curriculum. Academic support programs are available in order to give students a maximum opportunity to succeed in their academic work and professional training. The school will also provide as much financial aid as possible through loans and grants. In addition, the Office of Minority Affairs is available to counsel and assist students with NBME examinations and to acquaint them with the community.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Oct. 15, 1990
School application fee after screening: $25
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  Nonresidents must apply through EDP
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Nov. 1, 1990
  Latest date: Until class is filled.
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 100 (10 EDP)
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $4,575
  Nonresident: $9,900

Student fees: $324

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	203	281	484
Applicants Interviewed	170	83	253
New Entrants*	81	18	99

*100% took the MCAT; 99% had baccalaureate degrees.

University of Vermont College of Medicine

Dr. William H. Luginbuhl, Dean
Dr. Marga Susan Sproul, Associate Dean for Admissions
Deborah Altemus, Financial Aid Officer

Address inquiries to:
Admissions Office
E-109 Given Building
University of Vermont
College of Medicine
Burlington, Vermont 05405
(802) 656-2154

General Information. The University of Vermont College of Medicine is located on the eastern shore of Lake Champlain in the city of Burlington, Vermont, a community of about 38,000 people. Established in 1822, it is the seventh oldest medical school in the United States. The College of Medicine recognizes the need for primary care physicians, clinical specialists, and research scientists. Our curriculum provides a general professional education in both basic and clinical sciences, followed by a period structured to meet each student's individual goals.

The College of Medicine is part of the Division of Health Sciences of the University, which includes the School of Nursing and the School of Allied Health Sciences. These three health components are joined together in one physical complex. The adjacent Medical Center Hospital of Vermont, a 470-bed referral center, is our principal teaching hospital. We also maintain strong affiliations with hospitals in Portland, Maine, and Plattsburgh, New York.

Curriculum. The process of education and the future performance of graduates as practicing physicians or investigators are major concerns of the college.

The curriculum is divided into three phases. The first phase consists of 1½ years of instruction in the basic sciences. The Basic Clerkship, which prepares the student for the study of medicine by the study of patients, is presented throughout this portion of the curriculum. The second phase, 12 months in length, is devoted to the clinical sciences of medicine. These two segments are designed to provide students with a broad general professional education. The final phase of the curriculum, the Senior Selective Program, extends through the 1½ years prior to graduation. This program enables students to select a course of study and experience best suited to their career objectives. Generally, 8 to 10 months of this final period are available for electives at the medical center, elsewhere in the United States, or abroad.

We use an honors/pass/fail method of grading, coupled with individual narrative evaluations of performance in clinical rotations.

Requirements for Entrance. The MCAT is required and must be taken by fall of the application year. Applicants must have completed at least three years of undergraduate study in an accredited college or university; the baccalaureate degree is highly desirable. In order to ensure serious consideration, applicants are urged to take the MCAT in the spring of the year of application and to have their basic premedical requirements completed at the time of application. The undergraduate program must include the following course work:

	Years/Hours
Biology or zoology (with lab)	1/8
General chemistry (with lab)	1/8
Organic chemistry (with lab)	1/8
General physics (with lab)	1/8

Secondary school advanced placement courses will be recognized *only* if credit for them appears on the college transcript.

Selection Factors. The Committee on Admissions seeks a heterogeneous student body. We look for evidence of the promise of excellence accompanied by genuine concern for the welfare of others. Effective interpersonl skills are considered especially important. The Committee does not discriminate on the basis of race, color, sex, sexual orientation, religion, age, handicap, or national origin.

Selection of an applicant for admission is based upon the past pattern of academic performance plus an assessment of the applicant's fitness for the study and practice of medicine in terms of aptitude, interests, motivation, attitudes, and maturity. Letters of recommendation and a personal interview form an important part of the application process. The interview is required and is by invitation. We do not offer off-campus interviews.

Preference for admission is given to qualified residents of Vermont and states which have contractual arrangements with the university (currently Maine). However, significant numbers of openings remain for qualified residents of other states. Members of minority groups are encouraged to apply for admission.

The 1989 entering class had the following characteristics: *mean GPA,* 3.23; *sex,* 45 percent female; 54 percent male; *residence,* 27 from Vermont, 16 from Maine, 50 from other states; *undergraduate major,* 68 percent in the natural or biological sciences; *overall acceptance rate,* 2,507 applications received, 547 applicants interviewed, 207 acceptances offered to obtain a class of 93 students.

Because of the November 1 deadline, early application is recommended.

Financial Aid. Financial aid funds are limited and are primarily in the form of loans. Funds are distributed equitably and according to relative need. Entering students are considered for award on the same basis as those already enrolled. An applicant's financial status has no bearing on admission determination. A limited amount of scholarship money has been designated for students who are members of minority groups which are underrepresented in the practice of medicine in the United States.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $50
Oldest MCAT scores considered: 1989
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Dec. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 93 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $9,250
  Maine: $8,700
  Other states: $20,800
Student fees: $350

Information on 1989–90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	47	2,460	2,507
Applicants Interviewed	35	512	547
New Entrants*	27	66†	93

*100% took the MCAT and had baccalaureate degrees.
†Of the total out-of-state new entrants, 27 students were from Maine and New York.

Eastern Virginia Medical School of the Medical College of Hampton Roads

Dr. James E. Etheridge, Jr., Interim Dean
Dr. Robert M. McCombs, Associate Dean
for Admissions and Student Affairs
Mary L. Parks, Registrar/Director of Financial Aid

Address inquiries to:
Office of Admissions
Eastern Virginia Medical School
700 Olney Road
Norfolk, Virginia 23507
(804) 446-5812

General Information. The Eastern Virginia Medical School (EVMS) is a community-based institution established in response to the desire of the Hampton Roads community to improve the quality of health care and to extend the benefits of an academic health science center throughout the eastern area of Virginia. Although the role of the physician in providing primary care is emphasized through the exposure of students to multiple community medical and health care facilities, interest in medical research and academic medicine is also encouraged.

Curriculum. In the first two years, the curriculum consists of courses in the basic sciences. Small group problem-solving sessions, with basic and clinical scientists as facilitators, introduce the students to the application of scientific principles in the solution of clinical problems. This approach is intended to encourage the students to become independent learners. Students also receive introductory education in clinical and interpersonal skills and medical ethics.

The third year consists of clinical clerkships in family medicine, internal medicine, obstetrics and gynecology, pediatrics, psychiatry, and surgery.

The fourth year includes required rotations in selected surgical specialties and substance abuse treatment. The remainder of the year consists of electives chosen to meet the student's interests and career goals.

The clinical portion of the curriculum is taught by both the full-time faculty and a volunteer faculty numbering nearly 800 physicians affiliated with 29 hospitals throughout eastern Virginia. This diversity of resources provides students with access to a broad range of clinical experiences and methods for the delivery of medical care.

Students are awarded the grades of honors, pass, or fail based upon their success in achieving the stated objectives of each course.

Requirements for Entrance. The MCAT and a minimum of 100 college semester hours at an accredited American or Canadian college or university are required. Course work must include the following subjects:

	Years
Biology	1
Chemistry, including organic chemistry	2
Physics	1

Applicants are expected to have grades of C or better on all required courses. Credits earned through advanced placement programs or CLEP are acceptable. Applicants may enhance their chances of acceptance by taking graduate course work in a natural science. Over the last few years, the average GPA was 3.32 for matriculating students.

No application will be considered complete without scores from the MCAT taken within two years prior to application. In recent years, students at EVMS have averaged 9 in each subject area of the MCAT.

Selection Factors. One of the goals of EVMS is to produce physicians who are both competent and compassionate. Accordingly, applicants are evaluated using several factors, including science and overall GPA, MCAT scores, exposure to the medical field, maturity, character, emotional stability, integrity, judgment, and motivation. The Committee on Admissions requires an applicant to have a good concept of the role of the physician and to provide evidence of sustained motivation required for medical disciplines. Many applicants demonstrate achievement of these requirements by their volunteer or work experience in a medical environment and by participation in community projects. Personal characteristics of an applicant are determined by a written statement, a personal interview, letters of recommendation, and other evaluations.

Preference is given to legal residents of Virginia, and there are scholarship programs for academically qualified Virginians. In recent years there has been a marked increase in out-of-state applicants. Recent entering classes have contained 33 to 45 percent non-Virginians. Nonresidents and residents with

GPAs and MCAT scores that are equal to or better than those of applicants to recent entering classes are encouraged to apply. Foreign nationals without permanent visas cannot be considered. EVMS does not discriminate on the basis of sex, race, creed, age, national origin, marital status, or handicap. The application fee will be waived if a fee waiver is granted by AMCAS.

Financial Aid. The ability of a student to provide for the costs of education is not a factor in the selection process. Students are encouraged to have a financial plan and meet a good portion of their need with creative financing. For assistance in financial planning, please contact the Office of Financial Aid. Eighty-four percent of EVMS students receive some form of financial aid, whether it be scholarships, loans, or College Work-Study Program funds. The majority of funds available are based on need as demonstrated by the student's application to GAPSFAS (see Chapter 6). Students are advised that many factors determine the form of aid a student is eligible to receive. If students have good credit records and meet citizenship and other criteria, they can expect to meet their needs through school-administered, state, and federal loan and scholarship programs. Virginia residents may be eligible to receive a Tuition Assistance Grant; the amount for the 1989-90 academic year was $1,500.

Information for Minorities. Minority students are encouraged to apply. Every effort is made to evaluate these applicants giving due consideration to variances in educational and socioeconomic backgrounds. Academic scholarships are available each year for black students. EVMS has college-endorsed student organizations and faculty liaison committees that actively address minority concerns. Information is available from the minority affairs counselor, assistant dean for minority affairs.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 1, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 10 days
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $200, due with response to acceptance offer
Deposit refundable prior to: March 1, 1991
Estimated number of new entrants: 96 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $9,500
  Nonresident: $15,000

Student fees: $634

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	421	1,755	2,176
Applicants Interviewed	164	263	427
New Entrants*	45	51	96

*100% took the MCAT; 99% had baccalaureate degrees.

Virginia Commonwealth University
Medical College of Virginia
School of Medicine

Dr. Stephen M. Ayres, Dean, School of Medicine
Dr. W. Kenneth Blaylock, Associate Dean, Admissions
Scott Brown, Financial Aid Officer

Address inquiries to:
Medical School Admissions
Virginia Commonwealth University
Medical College of Virginia
MCV Station, Box 565
Richmond, Virginia 23298-0565
(804) 786-9630

General Information. The School of Medicine, which has been in continuous operation since 1838, is the founding institution of the Medical College of Virginia, Health Sciences Division of Virginia Commonwealth University. The health science campus of this urban university includes the schools of medicine, dentistry, nursing, pharmacy, basic science, and allied health professions. The supporting clinical facilities are also on the campus and at the nearby Veterans Administration Hospital.

Curriculum. The subject orientation of the integrated curriculum is the functioning organ system of the human body. These organ system subjects are organized, in the first year, to achieve a selective content of clinical and basic science knowledge of the growth, function, and development of a normal human being. During the second year, the pathologic changes in the organ systems are the primary focus.

The third and fourth years are devoted to patient care in a variety of bedside and clinic settings of the medical center as well as conferences and lectures.

There are elective programs in the first, second, and fourth years. The M.D./Ph.D. program is offered to five students each year.

Requirements for Entrance. The MCAT is required. A demonstrated competence in basic science is essential, although a science major is not required. Each matriculant must have at least 90 semester hours or equivalent in an accredited college. Courses must include:

	Semesters
Biology (with lab)	2
General chemistry (with lab)	2
Organic chemistry (with lab)	2
General physics (with lab)	2
College mathematics	2
English	2

Applicants are urged to take the MCAT in the spring of the year of application and no later than the fall of that year. Early Decision Program applicants must have MCAT scores available when applying.

Selection Factors. Applicants are selected as prospective physicians as well as students of medicine. Attributes of character, personality factors, academic skills, and abilities are considered. Premedical evaluations, interviews, academic and biographical records, and SAT and MCAT scores are all considered in the comparative selection process.

The school does not discriminate on the basis of age, race, sex, creed, national origin, or handicap. The impact of social and economic factors is considered when evaluating applicants. Preference is given to bona fide residents of Virginia.

The 1988 entering class of 168 students had the following credentials: *undergraduate major,* 42 percent in arts or humanities, 58 percent in sciences; *degrees,* 12 percent with graduate degrees, including 3 doctorate degrees; *residence,* 71 percent Virginia residents; *minorities,* 4.2 percent black; *sex,* 33.4 percent women; *overall undergraduate GPA,* 3.35; *MCAT average scores, B*-9.9, *C*-9.6, *P*-9.4, *SP*-9.6, *SA:R*-9.1, *SA:Q*-9.1. Three percent of the entering class were selected through the Early Decision Program.

The uniform acceptance date is October 15 with weekly selections thereafter. Supplemental applications must be received by December 1.

Financial Aid. Assistance to students in meeting the cost of their medical education is available in the form of loans, scholarships, College Work-Study Program, and financial counseling offered by the Financial Aid Office of the Medical College of Virginia. The College Scholarship Service needs analysis system is used in awarding need-based aid (see Chapter 6), and application is made by means of the Financial Aid Form (FAF).

The university's Financial Aid Department administers all major federal aid programs and coordinates with the School of Medicine in the administration of state, private, and institutional scholarships and loans. The Financial Aid Department makes a written response to every student request. Application forms and aid fact sheets are available in mid-January of each year. Applications for aid may be made prior to notification of acceptance by the School of Medicine. Applicants are encouraged to seek all resources available to them.

Information may be obtained from: Financial Aid Office, Medical College of Virginia, School of Medicine, Box 244-MCV Station, Richmond, Virginia 23298; the location is 12th and Broad Streets in Richmond.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee after screening: $50
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: March 15, 1991
Estimated number of new entrants: 168 (15 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $6,060
  Nonresident: $12,350
Student fees: $325

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	501	1,658	2,159
Applicants Interviewed	*	*	850
New Entrants†	121	48	169

*Data not available.
†100% took the MCAT; 98% had baccalaureate degrees.

University of Virginia
School of Medicine

Dr. Robert M. Carey, Dean
Dr. E. W. Pullen, Associate Dean and
Director of Admissions
Catharine S. Anas, Director of Financial Aid

Address inquiries to:
Medical School Admissions Office
Box 235
University of Virginia
School of Medicine
Charlottesville, Virginia 22908
(804) 924-5571

General Information. Authorization to establish the School of Medicine, one of the oldest medical schools in the South, is noted in the handwriting of Thomas Jefferson in the minutes of the first meeting of the Board of Visitors of the University of Virginia in 1819. The School of Medicine was established in 1824 and opened for instruction March 7, 1825.

The School of Medicine and the new University of Virginia Hospital are both located on the grounds of the University of Virginia in Charlottesville. The University of Virginia Hospital has 552 beds and 61 bassinets and an outpatient department. These facilities are supplemented by those of the Kluge Children's Rehabilitation Center and Research Institute and the Blue Ridge Hospital Division.

Curriculum. During the first two years, students study a core curriculum of those basic and clinical sciences requisite to an understanding of both the physical and psychological aspects of human biology and to the study of disease. An effort is made to demonstrate the application of the basic sciences to clinical medicine by using patient case materials to develop the skills of taking case histories and of examining patients.

The remainder of the curriculum consists of 12 months of required clinical clerkships and eight months of elective opportunities. During the series of clerkships on the various clinical services, the learning experience is by direct contact with patients. Teaching occurs primarily at the bedside; small tutorial seminars, lectures, and group discussions are also conducted. In addition to the clinical clerkships at the University of Virginia Hospital, all students, unless exempted, can expect to have part of their clerkship experience at an affiliated hospital under the direction of full-time faculty members.

The electives program offers students the opportunity to further pursue their own interests and abilities. Students may choose from a variety of electives, including clinical experiences, graduate courses, and research activities. A summer elective program in family medicine is offered to a limited number of entering students.

Many opportunities exist for students who are interested in medical research. Prominent among these opportunities are the Summer Research Program and the Medical Scientist Training Program (MSTP). The MSTP is an accelerated program which leads to combined M.D. and Ph.D. degrees and which utilizes the facilities of both the School of Medicine and the Graduate School of Arts and Sciences. It is designed specifically to prepare a limited number of highly qualified men and women for careers in both research and clinical medicine. Information about this program is included in the supplementary application materials sent to each medical school applicant.

Requirements for Entrance. The MCAT is required and must be taken no later than the fall of the year of application. The minimum undergraduate college requirement for admission is 90 semester hours of graded liberal arts course work; however, it is unusual to accept students who will not have received the baccalaureate degree by the time of enrollment. Without exception the following courses are required:

	Years
Biology (with lab)	1
General chemistry (with lab)	1
Organic chemistry (with lab)	1
General physics (with lab)	1

These courses are invalid if at the time of matriculation more than seven years have elapsed since their completion.

Other than these courses, the college curriculum for the premedical student should be planned in accord with individual interests and aptitudes to gain as broad an educational background as possible. Advanced courses in biology and chemistry are advised for students who have chosen nonscience majors.

Advanced placement credit is acceptable if such credit is clearly indicated on the undergraduate college transcripts as having been accepted by the college toward fulfillment of requirements for the bachelor's degree. However, students are expected to pursue advanced courses if advanced placement credit was awarded for any of the required science courses (including laboratory work).

Selection Factors. Preference is given to residents of Virginia. Applications from well qualified nonresidents are welcomed, but early application is advised. Foreign nationals should have permanent resident visas and baccalaureate degrees from American or Canadian colleges or universities; reapplicants should show significant improvements in their applications. The Committee on Admissions does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

In the selection process many factors are considered. Some of the information relative to these factors is submitted by the student, some appears in letters of evaluation, and some is revealed during the interview. In the consideration of academic performance, the school is interested in the difficulty of the curriculum pursued and in trends of performance. The Admissions Committee does not grant regional interviews or interviews by applicant request.

The class entering in 1989 had a mean GPA of 3.5 and mean MCAT scores in the 80th percentile.

Financial Aid. In addition to loans from the standard federal programs (see Chapter 6), school-funded scholarships and loans are available to students who demonstrate need via analysis of the family's financial situation by the College Scholarship Service (CSS). Parental financial information is required of all applicants for school-funded aid. Approximately 65 percent of the student body receive financial aid. Student employment is not encouraged. Financial status has no influence on admission consideration. Financial aid applications, which are sent only upon specific request, are available after January 1 and are due March 1.

Information for Minority Students. This institution is committed to increasing the representation of minority physicians in medicine. To this end, we welcome applications from competitive out-of-state and in-state minority students. Structures in place to facilitate preparation and success of students include: 1) content based MCAT program; 2) pre-matriculation academic advancement summer program for those accepted into a medical school and those who have completed MCAT and course requirements; 3) extensive tutorial and other academic support programs upon admission; 4) need-based financial assistance and some minority scholarships. Early completion of application for admission is strongly recommended. The Admissions Committee includes minority members, and a team of committed faculty and administrators provides support at all levels for minority students.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $50
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 139 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $5,900
  Nonresident: $12,780

Student fees: $638

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	478	1,989	2,467
Applicants Interviewed	206	237	443
New Entrants*	97	42	139

*100% took the MCAT and had baccalaureate degrees.

University of Washington School of Medicine

Dr. Michael E. Whitcomb, Dean
Dr. Werner E. Samson, Assistant Dean for Admissions
Patricia T. Fero, Administrative Officer
for Admissions

Address inquiries to:
Admissions Office (SM-22)
Health Sciences Center T-545
University of Washington
Seattle, Washington 98195
(206) 543-7212

General Information. The University of Washington School of Medicine was established in 1945. For complete information about policies, procedures, and programs, candidates are referred to the current University of Washington School of Medicine *Bulletin*, available from the school.

Curriculum. The first two years of the curriculum are identified as the basic organ system curriculum. It consists of three phases or groups of courses: pre-organ system courses; organ systems taught by basic and clinical disciplines; and introduction to clinical medicine and health care. The academic demands of the basic curriculum are scaled so that most students will be able to take elective courses.

The clinical curriculum is pursued predominantly in the third and fourth years. it includes three elements: prescribed clerkships to be completed by all students in medicine, obstetrics/gynecology, pediatrics, psychiatry, and surgery; a clinical selective series requiring a minimum number of credits in three clinical areas (family medicine, rehabilitation medicine/chronic care, and emergency care/trauma); and clinical clerkships elected by the student.

The Independent Study in Medical Science requirement enables students to gain an understanding of the philosophy and methods of science as they relate to their chosen field of medicine.

One aspect of the curriculum is the WAMI program of decentralized medical education (see Chapter 3). All students enrolled at the University of Washington School of Medicine may receive as part of this program a portion of training at sites away from the University of Washington campus. Offers of acceptance, therefore, are conditioned upon agreement to participate in the WAMI program.

Requirements for Entrance. The MCAT is required and must be taken no later than fall of 1990. Under exceptional circumstances, the GRE may be considered during the admissions process; however, if accepted, the applicant will be required to take the MCAT prior to matriculation. The following course requirements must be completed by matriculation:

	Sem. hrs.
Biology	8
Chemistry (May be satisfied by taking any combination of inorganic, organic, biochemistry, or molecular biology courses)	12
Physics	4
Other science (May be satisfied by taking other courses in any of the above categories)	8

Proficiency in English, basic mathematics, and information technologies is also required.

Under exceptional circumstances, certain course requirements may be waived for individuals who are presented with unusual achievements and academic promise.

A minimum of three years of college is required; however, 99 to 100 percent of entrants in recent years have fulfilled requirements for a bachelor's degree. No major is preferred, but a broad educational background is encouraged.

Applicants who are considered seriously will be requested to submit supplemental information, one part of which will be a premedical committee evaluation or three individual letters submitted from instructors who have taught the candidate in a collegiate course (a mixture of evaluations from the sciences and humanities is recommended). All supplemental materials must be submitted by January 15, 1991. Early submission of application and supplemental materials is encouraged.

Candidates who wish to be considered for the M.D.-Ph.D. program must submit the Medical Scientist Training Program application within three weeks after receipt. This application is sent to all eligible candidates along with the acknowledgement of receipt of the medical school application.

Selection Factors. Candidates for admission are considered comparatively on the basis of academic performance, motivation, maturity, personal integrity, and demonstrated humanitarian qualities. A knowledge of and exposure to the needs of individuals and society and an awareness of health care delivery systems are essential. Extenuating circumstances in an applicant's background are evaluated as they relate to these selection factors.

Students entering in the fall of 1989 had a mean GPA of 3.51. Mean scores on the MCAT were as follows: *B*-10.3, *C*-10.4, *P*-10.4, *SP*-10.6, *SA:R*-9.4, *SA:Q*-9.6.

Residents of the states of Washington, Alaska, Montana, and Idaho and black Americans, Native Americans, Chicanos, Mainland Puerto Ricans and Medical Scientist Training Program applicants, regardless of residence, are given serious consideration. Foreign applicants, in addition to the above requirements, must also have a permanent resident visa. In addition, a limited number of exceptionally well-qualified candidates are considered regardless of residence.

After screening of the completed application, applicants to receive further consideration will be invited to Seattle for an interview.

Financial Aid. Financial status has no bearing on chances for admission. All applicants for aid must submit data for an analysis of need through the College Scholarship Service (see Chapter 6). The application deadline of March 1 must be met, regardless of admission date, in order to receive highest priority for aid. Eighty-two percent of the student body receive some form of aid, most of which is in the form of loans. Financial aid applications are available in January. Contact the School of Medicine's Financial Aid Office at (206) 545-2520.

Information for Minorities. The Minority Affairs Program was established to recruit and retain qualified minority and disadvantaged students. The program provides tutorial assistance, a prematriculation summer program, counseling, and support services to enhance opportunities for academic and professional success. For more information contact Dr. John H. Vassall, director, or call (206) 545-2489.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee after screening: $35
Oldest MCAT scores considered: Spring 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Nov. 1, 1990
  Latest date: March 15, 1991

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $50, due upon billing; nonrefundable
Estimated number of new entrants: 165
Starting date: Aug./Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $6,140
  Nonresident: $15,592

Student fees: $1,665

Information on 1989-90 First-Year Class

Number of	*In-State**	*Out-of-State*	*Total*
Applicants	485	986	1,471
Applicants Interviewed	336	21	357
New Entrants†	161	4	165

*In-state figures include Washington, Alaska, Montana, and Idaho residents.
†100% took the MCAT and had baccalaureate degrees.

Marshall University School of Medicine

Dr. Charles H. McKown, Jr., Vice President and Dean
Cynthia A. Warren, Director of Admissions
Dr. Edgar W. Miller, Director of Student Financial Assistance

Address inquiries to:
Admissions Office
Marshall University
School of Medicine
1542 Spring Valley Drive
Huntington, West Virginia 25755
(304) 696-7312; (800) 544-8514

General Information. The Marshall University School of Medicine was developed under the Veterans Administration Medical Assistance and Health Training Act passed by Congress in 1972. The School of Medicine was granted full accreditation and graduated its first class in 1981.

The School of Medicine is a community-based program with emphasis on the education of primary care physicians. The teaching affiliates of the School of Medicine include hospitals in Huntington and other communities in West Virginia.

Curriculum. In the first year, the basic sciences courses of anatomy, physiology, and biochemistry are supplemented by a clinical interdepartmental course (introduction to medicine) and courses in behavioral medicine, communications, biostatistics, and epidemiology. The second year includes pharmacology, pathology, microbiology, genetics, psychopathology, community medicine, physical diagnosis, immunology, and introduction to clinical medicine. During the third and fourth years, students are rotated through clerkships at participating community hospitals and other locations in the clinical fields of medicine, surgery, pediatrics, psychiatry, family practice, obstetrics/gynecology, and emergency medicine. Twenty-six weeks are devoted to electives in the senior year. A standard letter grading system (A, B, C, D, F) is utilized.

Requirements for Entrance. The MCAT is required. The baccalaureate degree is preferred. However, exceptionally well qualified students with three years of college education or the equivalent may be considered for admission. Minimum course requirements are:

	Sem. hrs.
Biology or zoology (with lab)	8
Inorganic chemistry (with lab)	8
Advanced chemistry Must include at least one semester of organic chemistry (with lab).	8
Physics (with lab)	8
English composition and rhetoric	6
Behavioral or social sciences	6

With the exception of these specific courses, applicants are encouraged to pursue their personal educational interests. Quality of course work rather than the field in which it is taken is the more important consideration.

It is urged that applicants take the MCAT in the spring of the year of application but no later than the fall of that year.

Selection Factors. There is no discrimination because of race, sex, religion, age, handicap, sexual preference, or national origin. Qualified members of minority groups are encouraged to apply.

Applicants are evaluated on the basis of their academic records, MCAT scores, recommendations from instructors, and personal qualifications as judged through interviews. Interviews are arranged only by invitation of the Admissions Committee.

Academic achievement alone is not a sufficient foundation for success in the profession of medicine. Applicants must exhibit excellence in character, motivation, and ideals. Behavioral qualities deemed essential for a career in medicine include, but are not limited to, good judgment, integrity, responsibility, and sensitivity.

As a state-supported institution, the School of Medicine gives preference in selection of students to West Virginia residents. Length of residence in, and commitment to, West Virginia may be considered. A limited number of positions may be available to well qualified nonresidents from states contiguous to West Virginia or to nonresidents who have strong ties to West Virginia. Only U.S. citizens or applicants with permanent visas and in the process of obtaining citizenship are considered.

The August 1989 entering class had the following profile: *residence,* 81 percent West Virginia residents; *mean overall GPA,* 3.3; *gender,* 35 percent women; *undergraduate major,* 71 percent in biological sciences, chemistry, or preprofessional curriculum; *degrees,* 30 bachelor's degrees, 8 master's degrees, 2 doctoral degrees, and 8 students without baccalaureate degrees; *undergraduate* *schools,* 37 students attended West Virginia schools.

Financial Aid. The financial needs of the applicant are not a consideration in the admissions process. There is a variety of resources for financial assistance available to medical students. Currently 72 percent of the students are receiving financial assistance. Further information and applications for financial aid may be obtained from: Office of Financial Assistance, Marshall University, Huntington, West Virginia 25755.

Because of the rigorous nature of the medical program of studies, students are advised not to attempt outside employment during the academic year.

The supplemental application fee will be waived for individuals who have been granted an AMCAS fee waiver.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $20
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  For West Virginia residents only
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 48 (10 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Resident: $5,047
  Nonresident: $9,017

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	125	467	592
Applicants Interviewed	100	42	142
New Entrants*	39	9	48

*100% took the MCAT; 83% had baccalaureate degrees.

West Virginia University School of Medicine

Dr. Robert D'Alessandri, Dean
Dr. John W. Traubert, Associate Dean for Student Affairs
Kenneth Sears, Financial Aid Officer

Address inquiries to:
Office of Admissions and Records
West Virginia University
Health Sciences Center
Morgantown, West Virginia 26506
(304) 293-3521

General Information. West Virginia University has offered the first two years of the medical curriculum continuously since 1902. Two decades ago the Health Sciences Center was established, including the School of Medicine and the schools of dentistry, nursing, and pharmacy. A modern physical plant provides facilities for the schools, including two new hospitals—the 400-bed Ruby Memorial Hospital and the 75-bed Chestnut Ridge Psychiatric Hospital—and a cancer center. Clinical instruction is also carried out in the Charleston Division and the West Virginia University Medical Center.

Some university housing is available for both married and unmarried students.

Curriculum. The educational program of the School of Medicine is designed to provide students with a foundation upon which they can base further preparation for any branch of medicine, specifically including family practice, specialty practice, teaching, research, or a combination of these career objectives.

In the first and second years the plan of study is directed toward the principles and methodology of the basic medical sciences. However, the basic courses are designed so that the student begins to integrate concepts of patient care. Students have the opportunity of additional early exposure to patient-oriented instruction through the introduction to clinical, behavioral, and community medicine during the basic science years.

A traditional third-year curriculum gives the student a foundation in history-taking, examination, patient relations, laboratory aids, diagnosis, treatment, and use of medical literature in the major clinical disciplines.

The fourth year is selective; that is, students choose one of three tracks, working with advisers in each track to select their individual program. The general track is appropriate for the student considering family practice or other primary care specialties or for the student who has not decided upon a particular specialty interest. The student may choose a specialty track by department and may already recognize a compelling attraction to a subspecialty within that department. The research track offers the opportunity to spend much of the fourth year in medical or biological research. Every department conducts a vigorous program of research in which students are encouraged to participate and to develop programs of their own. Vacation research fellowships are available, and interested, qualified students are given the opportunity to work toward the Ph.D. degree in any of the basic medical sciences. Only students with exceptional interest and promise will be considered for the combined M.D.-Ph.D. program.

An honors/satisfactory/unsatisfactory grading system is used in the School of Medicine.

Requirements for Entrance. The MCAT and a minimum of three years of college (minimum of 90 semester hours or equivalent) are required. College work must include:

	Sem. hrs.
Biology (with lab)	8
Inorganic chemistry (with lab	8
Organic chemistry (with lab)	8
General physics (with lab)	8
English	6
Behavioral or social sciences	6

Calculus is recommended.

Fundamental competence in communication skills is emphasized as a great need. Additional course work should be designed to lead toward a bachelor's degree with major and minor fields of the applicant's own choosing, not necessarily in the natural sciences and not necessarily in premedical curriculum.

The applicant should apply promptly after June 15. Interviews are held on site beginning in September. No applicant is admitted without an interview. Acceptances will be issued periodically throughout the interview period.

Selection Factors. There is no discrimination because of race, creed, sex, or age. Qualified members of minority groups are encouraged to apply. The Health Careers Opportunity Program is available for minority students. Choice of students is based upon scholarship, MCAT scores, and personal qualifications as judged by interviews and recommendations from qualified persons.

As a state-supported school, the School of Medicine gives preference in selection of students to West Virginia residents, but places may be available each year to well qualified nonresidents. Although most students present a bachelor's degree at matriculation, a small number of carefully selected individuals are admitted at the end of three years of college work.

A select number of students will be required to spend their clinical years at the Charleston Division of the West Virginia University School of Medicine.

The 1989 entering class had the following profile: *residence,* 84 percent West Virginia residents; *mean overall GPA,* 3.51; *mean MCAT scores, B*-8.6, *C*-8.6, *P*-8.4, *SP*-8.5, *SA:R*-8.7, *SA:Q*-8.3; *sex,* 36 percent women; *undergraduate major,* 85 percent in biological sciences, chemistry, or preprofessional curriculum; *degrees,* 82 bachelor's degrees, 3 graduate degrees, 3 students without a degree; *undergraduate schools,* 51 students attended West Virginia schools.

Financial Aid. A limited number of scholarship awards are available to well qualified students based on financial need. In addition, multiple loan funds are also available. Some part-time employment may be secured within the school, but the medical student should not undertake a heavy schedule of outside work. Students' spouses with any reasonable training and experience ordinarily have no difficulty in finding work near the medical school, the university, or Morgantown. Qualified nurses and laboratory technicians are especially in demand.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee after screening: $30
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  For West Virginia residents only
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Oct. 15, 1990
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 88 (6 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Resident: $4,952
  Nonresident: $8,962

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	150	880	1,030
Applicants Interviewed	128	110	238
New Entrants*	66	14	80

*100% took the MCAT; 96% had baccalaureate degrees.

Medical College of Wisconsin

Dr. Richard A. Cooper, Dean and
Executive Vice President
Dr. Herbert M. Swick, Associate Dean for
Academic Affairs
Lesley A. Mack, Director of Admissions and Registrar

Address inquiries to:
Office of Admissions and Registrar
Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, Wisconsin 53226
(414) 257-8246

General Information. Founded in 1913 as the Marquette University School of Medicine, the school became freestanding in 1967 and adopted its present name in 1970. It is a private medical school but receives support from the state. Strong relationships are maintained with other educational institutions in Milwaukee and throughout the state. Hospitals with major affiliation are the Milwaukee County Medical Complex, Froedtert Memorial Lutheran Hospital, Clement J. Zablocki Veterans Administration Medical Center, and the Children's Hospital of Wisconsin.

Curriculum. The curriculum is designed to provide a solid foundation for a career in any discipline of medicine. In the first two years, students acquire a thorough knowledge of the basic medical sciences. Courses in anatomy, biochemistry, physiology, biostatistics, and psychiatry comprise the first year. The second-year curriculum includes microbiology, pathology, pharmacology, and psychopathology and human sexuality. The two-year Profession of Medicine Program emphasizes the acquisition of knowledge and the development of professional and ethical values that are important to clinical practice.

The third year consists of two-month clerkships in medicine, surgery, obstetrics/gynecology, and pediatrics and a two-month combination of psychiatry and anesthesiology.

During the fourth year, students have one-month rotations in ward medicine, surgery, a medical selective, and ambulatory medicine; six elective months; and one month of vacation.

The increasing need for medical academicians has prompted the creation of the Medical Scientist Training Program, designed to culminate with the awarding of both the M.[illegible]d Ph.D. degrees at the end of a six- to seven-year period of study. The two students selected annually for this program pursue a slightly modified basic science curriculum which accommodates a two- to three-year period of graduate study. The two years of clinical training required to complete the M.D. degree are done upon completion of the Ph.D. degree. Additionally, the college offers programs leading to M.S./M.D. degrees and M.D./Ph.D. degrees and the Honors in Research Program. A five-year curriculum is available to students who wish to carry out their studies in the M.D. program over a longer time interval than is available in the standard four-year curriculum.

Requirements for Entrance. The MCAT is required, and applicants are urged to take it in the spring of the year of application. A minimum of three years of undergraduate work (90 semester hours) is required; however, applicants indicating on their application that they expect to obtain a degree must receive that degree before matriculation. Each prospective medical student must take the following courses on a graded basis:

	Sem./Qtr.
Biology (with lab)	2/3
General chemistry (with lab)	2/3
Organic chemistry (with lab)	2/3
Physics	2/3
English Should be college English which stresses composition.	2/3
Mathematics Completion of a course in algebra in high school or college.	

Because the school accepts students from a variety of major fields of study, students should determine their fields of major study according to their personal interest. Students are expected to be capable of effectively expressing themselves both orally and in writing.

Selection Factors. Academic excellence alone does not assure acceptance. The medical school reserves the right to exclude any applicant for any reason it deems sufficient. The college seeks students who are well suited to a competent and ethical practice of medicine. Successful applicants are expected to have a mature sense of values, sound motivation, demonstrated academic achievement, and the willingness and ability to assume responsibility.

The selection of students is based on a careful analysis of each candidate's suitability for the profession of medicine. Undergraduate achievement and MCAT scores are carefully evaluated in addition to subjective factors, including the candidate's statement in the application, academic recommendations, and personal interviews.

The mean GPAs for the 1989 entering class were 3.53 for Wisconsin residents and 3.24 for nonresidents. MCAT scores of 5 or less on any one section of the test may disqualify an applicant from further consideration.

Interviews are an integral part of the admissions procedure, and all applicants being seriously considered are interviewed before being offered an acceptance. Interviews are scheduled only at the request of the Committee on Admissions.

Although preference is given to Wisconsin residents, 48 percent of the 1991 class will be selected from the nonresident pool. The Medical College of Wisconsin does not discriminate on the basis of race, gender, creed, handicap, age, or national origin.

Financial Aid. All financial assistance available through the college, including federal and institutional scholarships and loans, is awarded solely on the basis of need. Students are encouraged to apply for any outside financial assistance for which they are eligible. The Financial Aid Office is available to direct students to sources of support. Students may apply for financial aid as soon as they have been accepted and have indicated their intent to enroll. Because of restrictions placed on loan and scholarship funds, financial aid cannot be obtained by foreign citizens. All foreign applicants must file proof of financial support before they are eligible for interview.

Information for Minorities. The school encourages applications from qualified minority students, particularly those who are Wisconsin residents. In addition to academic achievement, MCAT scores, recommendations, and personal interviews, the committee carefully considers the student's social and educational background and motivation. Further information concerning programs for minority students may be obtained from the assistant dean for minority student affairs.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Dec. 1, 1990
School application fee to all applicants: $45
Oldest MCAT scores considered: 1988
Does have Early Decision Program (EDP)
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990
Acceptance notice to regular applicants
  Earliest date: Nov. 1, 1990
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 3 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: May 15, 1991
Estimated number of new entrants: 202 (50 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Resident: $7,409
  Nonresident: $17,500

Student fees: $245

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	325	2,375	2,700
Applicants Interviewed	193	427	620
New Entrants*	105	94	199

*100% took the MCAT; 88% had baccalaureate degrees.

University of Wisconsin Medical School

Dr. Arnold L. Brown, Dean
Dr. Charles C. Lobeck, Associate Dean for Academic Affairs
Janice Waisman, Admissions Officer

Address inquiries to:
Admissions Committee
Medical Sciences Center, Room 1205
University of Wisconsin Medical School
1300 University Avenue
Madison, Wisconsin 53706
(608) 263-4925

General Information. The University of Wisconsin Medical School initiated a two-year program in 1907 and expanded to a full four-year program in 1924. The present University of Wisconsin Center for Health Sciences—which includes the Medical School, University Hospital and Clinics, Psychiatric Research Institute, the schools of nursing, pharmacy, and allied health sciences, and State Hygiene Laboratory—is located on the university campus. The Medical School basic science departments, first- and second-year teaching facilities, and administrative offices are located in the Medical Sciences Center. The Clinical Science Center houses the Medical School clinical departments, University Hospital and Clinics, School of Nursing, and Wisconsin Clinical Cancer Center. In addition to the University Hospital and Clinics, other hospitals in Madison and in Wisconsin are utilized in the educational program.

Curriculum. The educational and research programs have been developed to educate students to become qualified to undertake any career in medicine. The program provides early introduction to clinical problems, interdepartmental teaching by both basic science and clinical faculty in the second-year course entitled Pathophysiology of Disease, and up to 43 weeks of elective opportunity in basic and clinical sciences during the senior year.

The curriculum provides for an eight-week preceptorship in the senior year with authorized physicians throughout Wisconsin and expanded opportunities for study in other schools of the university and in other institutions.

Opportunities for research are available to medical students in individually arranged programs leading to the M.S. and Ph.D. degrees or by nondegree arrangements.

Competitive support is being offered to resident and nonresident students entering as M.D./Ph.D. candidates. Fellowships in the form of tuition and a stipend will be awarded to a select group of applicants who exhibit high academic achievement and interest in medical research.

Requirements for Entrance. The MCAT is required. Applicants are strongly encouraged to take the MCAT in the spring before application. Consideration of applicants who indicate they are taking the fall MCAT will be delayed, without detriment, until receipt of those scores.

Applicants must have a minimum of three years (90 semester hours) of college work by the time of matriculation. However, applicants are encouraged to obtain a baccalaureate degree before matriculation. Courses in English, biochemistry, quantitative analysis, and calculus and electives in the humanities and social sciences are recommended. College work must include:

	Semesters
General zoology or biology (with lab)	1
Advanced zoology or biology (with lab)	1
Inorganic chemistry (with lab)	2
Organic chemistry (with lab)	2
General physics (with lab)	2
Mathematics	2
Minimum requirement of college algebra and trigonometry.	

Selection Factors. Intellectual ability, breadth of academic and nonacademic interests and experiences, ability to communicate with others, motivation for medicine, and personal characteristics are some of the factors considered by the Admissions Committee. A preprofessional committee evaluation or three academic letters of recommendation plus one nonacademic letter of recommendation are required and must be submitted no later than January 15. Applicants may or may not be invited for personal interviews to complete the application process, depending upon the selection procedures being used. Applicants are encouraged to make their written applications as complete as possible.

The University of Wisconsin Medical School does not discriminate on the basis of race, sex, creed, national origin, age, or handicap. Women, minorities and/or disadvantaged students, and students from rural areas are encouraged to apply since these groups are presently underrepresented in both the applicant pool and the medical profession. Preference is given to residents of Wisconsin. Nonresident applicants are competing for a very limited number of places. Under the present circumstances, the number of nonresidents that can be admitted is limited to 5 percent of the entering class, currently a maximum of seven positions. Only highly qualified nonresidents are encouraged to apply. Applications are accepted from foreign nationals who have a permanent resident visa in the United States.

Financial Aid. All financial aid allocated by the University of Wisconsin Medical School is awarded on the basis of proven need. Need is calculated as the necessary expenses incurred while attending medical school minus the resources provided to the student by outside agencies, personal resources, and available parental resources. Priority for financial aid, especially grant awards, will be given to students with the greatest need. The major proportion of total financial aid is available in the form of loans.

Information for Minorities. The University of Wisconsin Medical School is committed to increasing the number of physicians from presently underrepresented ethnic groups and providing educational opportunity to individuals who have confronted socioeconomically and educationally disadvantaged conditions. Applications are encouraged from resident and nonresident black Americans, mainland Puerto Ricans, Mexican Americans, American Indians, and all socioeconomically disadvantaged persons, regardless of ethnic identity.

Every effort is made to reach a fair and well informed assessment of intellectual capacity, motivation for medicine, ability to communicate with others, determination to help others, and character. The accomplishments of all applicants will be assessed with due consideration of their backgrounds. Also considered is the diversity of interests which is of value in the training of professionals for good health care delivery.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in AMCAS. See Chapter 4.

Filing of AMCAS application
  Earliest date: June 15, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $20
Oldest MCAT scores considered: 1987
Does have Early Decision Program (EDP)
  For Wisconsin residents only
  EDP application period: June 15-Aug. 1, 1990
  EDP applicants notified by: Oct. 1, 1990

Acceptance notice to regular applicants
  Earliest date: Dec. 1, 1990
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes (for Wisconsin residents only)
Deposit to hold place in class: None
Estimated number of new entrants: 143 (25 EDP)
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Resident: $8,663
  Nonresident: $12,526

Information on 1989-90 First-Year Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	313	850	1,163
Applicants Interviewed	201	32	233
New Entrants*	133	10	143

*90% took the MCAT, 98% had baccalaureate degrees.

Chapter 11

Information About Canadian Medical Schools
Accredited by the LCME and by the CACMS

The 16 medical schools in Canada are affiliate institutional members of the Association of American Medical Colleges (AAMC) and participate in the Association's activities. The Canadian medical schools are accredited jointly by the Liaison Committee on Medical Education (LCME) and the Committee on Accreditation of Canadian Medical Schools (CACMS) of the Association of Canadian Medical Colleges. All are M.D. degree-granting schools with high quality educational programs.

Canadian medical schools should not be thought of as "foreign" in the same sense as the foreign medical schools mentioned in chapters 3 and 8. Admission policies and procedures of the Canadian schools are in many respects similar to policies and procedures followed in U.S. schools. Thus, many of the suggestions in chapters 1 through 6 are applicable also to students applying to these schools. A diversity does exist, however, in the relative importance given by the schools to various factors considered relevant in the selection process. Reference should be made to the individual school entries for details on these differences.

Thirteen Canadian medical schools have four-year programs. McMaster and Calgary have three-year programs, and Montreal has a five-year program. In 1991, the University of Montreal will introduce a four-year curriculum. With the introduction of the four-year curriculum, changes will be made in admission requirements, particularly prerequisites, which have not yet been announced. The University of Saskatchewan changed over to a four-year curriculum in 1987; students admitted in 1988 entered the new four-year program. Laval University allows students to opt to extend the four-year program over five years.

It should be emphasized that with the exception of McGill University the Canadian schools admit only a small number of U.S. applicants.

Selection Criteria

Pre-university education differs in Canada from the straight elementary-secondary 12-year system in the United States. There are also significant differences from province to province within Canada. As reflected in the individual entries, these differences affect the number of years of prerequisite college/university instruction required of applicants to medical schools located in the different provinces. Individual schools also impose their own requirements independent of the differences that arise out of the educational system itself. Table 11-A shows that biology, inorganic and organic chemistry, physics, and English are the most common subjects required in undergraduate education by the Canadian schools.

Language of Instruction

Three Canadian medical schools require fluency in French as all instruction is given in French. These schools are Laval, Montreal, and Sherbrooke—all located in the province of Quebec. Instruction in the other 13 schools is given in English, although students at the University of Ottawa have the option to write their examinations in French.

Table 11-A

Subjects Required by Three or More Canadian Medical Schools, 1991-92 Entering Class

Required Subject	No. of Schools ($n=13$)
Organic chemistry	12
Biology/biology or zoology	11
Inorganic (general) chemistry	11
Physics	11
English	7
Other biology or chemistry	5
College mathematics	5
Calculus	4
Humanities	4
Behavioral and/or social sciences	3
French	3
Physical Chemistry	3

NOTE: Figures based on data provided fall 1989. Three of the 16 medical schools (Calgary, Dalhousie, and McMaster) did not indicate specific course requirements and are not included in the tabulations.

Residence Requirements

A very small number of foreign students are accepted into Canadian medical schools each year. In this context, "foreign" refers to persons who are neither citizens of Canada nor landed immigrants at the time of application.

Also, medical schools usually give preference to citizens and landed immigrants residing in the province in which the medical school is located because universities are a provincial responsibility in Canada. Individual schools within a province may prefer to select students from specific regions within the province; prospective applicants should be aware of these preferences to maximize their chances of success.

Applicants from outside Canada should check with the particular school in which they are interested to ascertain whether that school considers applications from non-Canadian citizens or nonimmigrants.

Academic Record/Suitability

Although it is probably fair to state that an excellent academic record is the most important factor in gaining admission to a Canadian medical school, a great deal of effort goes into devising means of assessing suitability for a medical career based on factors other than academic ability. Personal suitability is assessed in a variety of ways by the schools, and so persons able to demonstrate the qualities considered important in the practice of medicine may occasionally gain access to medical school even if their academic record is not outstanding. Also, persons with outstanding records who fail to demonstrate the personal qualities considered important may not gain a place in medical school.

Most successful applicants to Canadian medical schools were interviewed prior to acceptance. The discussion of the interview in Chapter 5 also applies in the context of admission to Canadian schools.

Enrollment Reductions

A comparison of the proportion of applicants who are successful in gaining admission to medical school in Canada with those in the United States indicates that for many years it has been more difficult to gain admission to a Canadian medical school. During the past few years, medical schools in some Canadian provinces reduced the number of available first-year places. The reductions are substantial in some jurisdictions. A consequence is an increase in the competition for the available places in those provinces where enrollment reductions are being introduced. In 1989, 23.3 percent of the applicant pool was accepted into medical school.

MCAT

Eleven Canadian medical schools require applicants to take the Medical College Admission Test (MCAT). These schools are Alberta, British Columbia, Calgary, Dalhousie, Manitoba, McGill, Memorial, Ottawa, Queen's, Toronto, and Western Ontario.

Other Considerations

Entrants to Canadian schools today are often older than their counterparts of the past. Older applicants are given far greater consideration than previously.

Most medical schools no longer have admissions policies related to age, though older applicants are not as successful in gaining admission as younger ones. Prospective candidates who are concerned about this should check the statistics of the schools to which they wish to apply.

Table 11-B

Tuition and Student Fees for 1989–90 First-Year Students at Canadian Medical Schools (In Canadian Dollars)

Categories of Students*	Range	Median	Average
Canadian	750-3,169	2,074	1,921
Non-Canadian	1,446-12,645	4,435	5,581

NOTE: Figures based on data provided fall 1988.
*Twelve schools reported a higher tuition for non-Canadian students.

In no Canadian medical school is sex, race, or religion a factor in the selection process. The admission and enrollment of native Indian and Inuit students is encouraged in several Canadian medical schools. The number of female applicants has risen dramatically in recent years, and correspondingly larger proportions of the entering classes have been made up of women. Women comprise 45.1 percent of the applicant pool and 43.1 percent of registered students for the 1989-90 first-year class.

Expenses/Financial Aid

Tuition and student fees for Canadian and non-Canadian students in the 1989-90 entering class are given in Table 11-B and in the individual school entries. Expenses will vary from school to school and from individual to individual. It should be noted that tuition in several Canadian schools is slightly higher for successive years than for the first year.

Some information about financial aid is given in the individual school entries. Eligible Canadian students may apply for a Canadian student loan, or they may apply to the Department of Education of their own province for a provincial student loan.

Ontario Medical School Application Service (OMSAS)

The Ontario Medical School Application Service (OMSAS) is a nonprofit centralized application service for applicants to the five medical schools in the province of Ontario. OMSAS provides only the application processing service; each medical school is completely autonomous in reaching its own admission decisions. *All applications to the Ontario medical schools must be channeled through OMSAS.*

OMSAS application materials are available July 1. Completed application materials and official transcripts must be received by OMSAS no later than November 1. However, applicants are advised to submit their application materials well in advance of the deadline. An instruction booklet, containing information about application procedures, admission requirements, the undergraduate academic record form, and the OMSAS application, may be obtained from:

OMSAS
Ontario Universities' Application Centre
P.O. Box 1328
Guelph, Ontario
Canada N1H 7P4

Sources of Further Information

Further information about admission requirements, curricula of Canadian medical schools, and medical education in Canada is in the catalogs available from each school and in *Admission Requirements to Canadian Faculties of Medicine and Their Selection Policies.* Prices, in Canadian dollars, for this publication are $12.00 in Canada, $13.00 for requests from the U.S.A., and $20.00 for requests from overseas. It may be ordered from:

Association of Canadian Medical Colleges
Suite 1120
151 Slater Street
Ottawa, Ontario
Canada K1P 5N1

Abbreviations

Listed below are the abbreviations used in the school entries in this chapter.

GPA—Grade-point average

MCAT—Medical College Admission Test
  B—Biology
  C—Chemistry
  P—Physics
  SP—Science Problems
  SA:Q—Skills Analysis: Quantitative
  SA:R—Skills Analysis: Reading

NBME—National Board of Medical Examiners

OMSAS—Ontario Medical School Application Service

University of Alberta
Faculty of Medicine

Dr. Douglas R. Wilson, Dean
Dr. C. H. Harley, Associate Dean, Undergraduate
Medical Education and Student Affairs
Silvia Franklin, Executive Assistant
Student Affairs and Administration

Address inquiries to:
Admissions Officer
2J2.11 Mackenzie Centre
University of Alberta
Faculty of Medicine
Edmonton, Alberta
Canada, T6G 2R7
(403) 492-6350

General Information. The Faculty of Medicine at the University of Alberta was founded in 1913.

The Medical Sciences Building, the Clinical Sciences Building, the Walter C. Mackenzie Health Sciences Centre, and the University of Alberta Hospitals are located on the university campus. Clinical instruction is also given at the Royal Alexandra Hospital, Edmonton General Hospital, Misericordia Hospital, Alberta Hospital, Glenrose Hospital. W. W. Cross Cancer Institute, and Charles Camsell Hospital.

A student counseling service and student health services are available to all University of Alberta students.

Curriculum. The Faculty of Medicine conducts a fully accredited, four-year program leading to the degree of doctor of medicine. Each of the first two years consists of 33 weeks of instruction, from early September until mid-May. The final two years are conducted as a continuum, during which each student has a four-week holiday period.

The first year of the program includes a study of the principles of the basic medical sciences and an introduction to clinical medicine. The second year is a study of the basic and clinical sciences in relation to the mechanisms of disease in a clinical setting on a systems basis. The last two years are composed of a student internship of at least 56 weeks, during which the student is assigned to hospitals affiliated with the Faculty of Medicine for clinical study and experience, and an elective program which allows students to develop their own curriculum and spend a minimum of 18 weeks in one or more subject areas of their choice.

Throughout the program, emphasis is on self-education; much instruction is on a small group basis.

A graduate training program leading to eligibility for specialist qualifications by the Royal College of Physicians and Surgeons of Canada is offered in most clinical specialties. Programs leading to the degree of master of science or doctor of philosophy in any of the basic medical sciences and in most of the clinical medical sciences are conducted under the direction of the Faculty of Graduate Studies and Research of the university.

Opportunity for research in the basic medical sciences is available to those students interested in spending a year or more in this type of work and obtaining a bachelor of science in medicine degree.

Requirements for Entrance. The MCAT is compulsory. All students considering medicine must register in a degree program and maintain good standing in that program. Irrespective of the degree program, the student must take courses in the following subjects:

Biological sciences: General biology.
Chemistry: Inorganic and organic chemistry.
General physics
Statistics
English

These courses must be full-year courses (equivalent to six-credit courses at the University of Alberta) or two single-term courses (equivalent to three-credit courses at the University of Alberta) with the exception of statistics, in which a single three-credit course is acceptable.

Students are encouraged to obtain a baccalaureate degree prior to admission but may apply after two or three years in a degree program. To be considered for early selection, a student must have all the prerequisites as well as exceptional academic (minimum GPA of 8.0 on a 9.0 scale) and personal qualifications.

Selection Factors. Selection is based upon quality of scholastic achievement, personal suitability, and performance on the MCAT. Alberta residents are preferred, although each year out-of-province applicants are considered for 15 percent of first-year places. An interview, autobiographical essay, and letter(s) of reference may be requested. All information on each candidate is considered by the Admissions Committee, and the quota is filled by the best candidates available.

Financial Aid. Loans are available under the Canada Student Loan Plan or the Province of Alberta Loan Plan to Canadian citizens or permanent residents who have been in Canada and in Alberta for 12 months prior to the beginning of the academic term.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991-92 First-Year Class

Filing of application
  Earliest date: July 1, 1990
  Latest date: Nov. 1, 1990
School application fee to all applicants: $30
Oldest MCAT scores considered: 1977
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: May 1, 1991
  Latest date: Sept. 1, 1991

Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $50, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 118
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition
  Canadian: $1,796
  Non-Canadian: $2,543

Student fees: $225

Information on 1989-90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	355	387	742
Applicants Interviewed	180	67	247
New Entrants*	105	12	117

*100% took the MCAT; 33% had baccalaureate degrees.

University of Calgary
Faculty of Medicine

Dr. M. Watanabe, Dean of Medicine
Dr. J. M. Davies, Director, Admissions and Student Affairs
Adele Meyers, Admissions Officer

Address inquiries to:
Office of Admissions
University of Calgary
Faculty of Medicine
3330 Hospital Drive, N.W.
Calgary, Alberta
Canada T2N 4N1
(403) 220-6849

General Information. The Faculty of Medicine at the University of Calgary accepted its first students in September 1970. In 1972 the Faculty of Medicine moved into its permanent facilities in the Calgary Health Sciences Centre. The center has been designed to complement the objectives of the faculty's integrated teaching program.

Curriculum. After a short introductory course, the first of the interdisciplinary body systems courses is offered. In parallel run, the continuity and clinical skills courses are offered with approximately two-thirds of the student's time allocated to the these regularly scheduled courses. The remaining period is available for elective study and the independent study or tutorial program. Each academic year lasts about 11 months. The problem-solving approach, combined with the curriculum design, is intended to facilitate the integration between the conventional basic and clinical sciences. In the clinical skills course, students will have the opportunity to reinforce in a clinical setting what they have learned in the body systems. The curriculum also focuses on the relevance of the family and the community in health and disease.

At the end of the three years, students will be granted the M.D. degree, and they are encouraged to spend at least two more years in a specialized postgraduate program. The school's philosophy is to produce generalist physicians who can proceed to further training in family medicine, research, or a specialty.

Requirements for Entrance. All students are required to take the MCAT by the fall of the year before anticipated enrollment. Most students have a B.A. or B.Sc. degree before entering the Faculty of Medicine, although a few extremely well qualified students have been admitted after two years in an arts or science program. There is some advantage to majoring in a science area, but the student who has excelled in behavioral science or any other undergraduate area may be accepted.

The following undergraduate courses are recommended: general biology, cell biology, mammalian physiology, organic and inorganic chemistry, biochemistry, English, physics, calculus, and one course of psychology, sociology, or anthropology.

Selection Factors. The Admissions Committee selects applicants without discrimination to gender or race and attempts to apply five criteria: undergraduate academic achievement; an interview; an essay; letters of recommendation; and the MCAT. Final applicants will be required to attend an interview at the University of Calgary at their own expense. Final applicants will also be required to write an on- site essay on a topic assigned by the Admissions Committee. Preference is given to Alberta residents. One position is generally available for international applicants. Rejected applicants are given the opportunity to reapply for admission. Applicants who have been asked to withdraw or who have been suspended or expelled from any medical school will not normally be considered.

Financial Aid. The majority of students obtain financial aid through student loans. Because the students attend school 11 months each year, summer employment is unlikely, and, therefore, financial support must be sufficient to meet their requirements over the subsequent three years. The student awards officer will provide information about student loans, bursaries, and awards. The financial status of the applicant does not affect acceptance into the program.

Students receive a total stipend of $3,600 for the third (final) year.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991-92 First-Year Class

Filing of application
  Earliest date: July 1, 1990
  Latest date: Nov. 30, 1990
School application fee after screening: $25
Oldest MCAT scores considered: 1977
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: May 15, 1991
  Latest date: Varies

Applicant's response to acceptance offer
  Maximum time: 15 days
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition):
  $100, due with response to acceptance offer
Deposit refundable prior to: June 15, 1991
Estimated number of new entrants: 72
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Canadian: $2,101
  Non-Canadian: $3,089

Information on 1989-90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	303	549	852
Applicants Interviewed	117	68	185
New Entrants*	55	17	72

*100% took the MCAT; 73% had baccalaureate degrees.

University of British Columbia
Faculty of Medicine

Dr. William A. Webber, Dean
Dr. James E. Carter, Associate Dean, Admissions
Byron Hender, Director, Awards and
Financial Aid

Address inquiries to:
Office of the Dean, Faculty of Medicine
Admissions Office
University of British Columbia
317-2194 Health Sciences Mall
Vancouver, British Columbia
Canada V6T 1W5
(604) 228-4482

General Information. The Faculty of Medicine of the University of British Columbia received its first students in 1950 and graduated its first class in 1954. It is an integral part of a large provincial university comprising a variety of faculties and schools with a total enrollment of over 24,400 students.

Teaching in the preclinical subject areas is based in the basic medical science departments. Clinical teaching is currently carried out at the Vancouver General Hospital, St. Paul's, Shaughnessy, Children's, and Grace hospitals, J. F. McCreary Health Sciences Centre Hospital, and a number of other institutions.

The health sciences complex on the university campus comprises a large Instructional Resources Center providing lecture theaters, small group seminar rooms, audiovisual facilities, and student lounge and snack bar areas; a 60-bed psychiatric hospital with additional day care facilities; a 300-bed extended care unit; and a 240-bed acute care hospital. New off-campus hospital facilities at Children's Hospital and an adjoining obstetrical and gynecological unit at Grace Hospital were opened in 1982.

Curriculum. The four years of instruction are broadly divided into three phases: an initial 18-month period with emphasis on the basic medical sciences, a second 18-month period of detailed clinical instruction, and a final 12-month clinical clerkship. Teaching in the first year is carried out largely on campus, but during the second year it is transferred in part to the teaching hospitals; in the third and fourth years it is largely hospital-based. The fourth year comprises a 52-week clinical clerkship (including two weeks vacation) with blocks of time assigned exclusively to clerkship experience in each of the major clinical disciplines. The clerkship also provides an eight-week elective block. The elective block can be carried out in the academic departments on campus, in the affiliated teaching hospitals, in a large number of community hospitals throughout British Columbia, or in other medical centers or institutions in Canada or abroad, subject to approval by the Clerkship Committee.

Earlier introduction of students to patients in a clinical setting, the integration and coordination of learning experiences in the basic medical sciences and clinical practice, provision of increased elective and self-study time, and the development of more effective measures for evaluation of students and of the educational program are among the major objectives of the Curriculum Planning and Development Committee.

Requirements for Entrance. The MCAT, a minimum of three years (90 semester hours) of accredited college course work, and a minimum of a B average or second class standing (70 percent) are required. Some background in the humanities and behavioral sciences is recommended. A baccalaureate degree is not a prerequisite.

The minimum subject requirements are:

	Years
General biology	1
General physics	1
General biochemistry	1
General chemistry	1
Organic chemistry	1
Calculus I and II	1
English literature and composition	1

Selection Factors. Selection is not contingent upon applicants' sex, race, religion, or national origin. Those accepted are generally within the age range of 19 to 30 years. Preference is given to well qualified British Columbia residents; small numbers of candidates with superior qualifications from other Canadian provinces and other countries may be admitted. No applicant is considered who has been required to withdraw from another medical school.

Admission is based on intellectual achievement and potential, as demonstrated by overall academic records and MCAT scores, and on qualities of personality, character, and motivation, evaluated by interviews, preprofessional committee reports, letters of reference, and an autobiographical statement submitted with the application. Applicants will be advised if a personal interview is required.

Financial Aid. Scholarships are awarded to students showing proficiency and promise in their medical school studies. Generally they are available to only those students who have been in attendance in a university in British Columbia for at least one year. These scholarships are provided through the generosity of various medical and other organizations in British Columbia. Bursaries and loans may be applied for in any academic year.

It is recommended that students devote themselves entirely to the full-time demands of the medical course. Students' spouses may find employment through the university's Personnel Office.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: Aug. 15, 1990
  Latest date: Jan. 15, 1991
School application fee: $25 for out-of-province applicants
Oldest MCAT scores considered: 1986
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Feb. 28, 1991
  Latest date: Class registration day
Applicant's response to acceptance offer
  Maximum time: 4 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 120
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Canadian: $2,762
  Non-Canadian: $6,905
Student fees: $139

Information on 1989–90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	447	106	553
Applicants Interviewed	410	5	415
New Entrants*	120	0	120

*100% took the MCAT; 75% had baccalaureate degrees.

University of Manitoba
Faculty of Medicine

Dr. N. R. Anthonisen, Dean
Dr. D. P. Snidal, Associate Dean
C. K. Paragg, Registrar

Address inquiries to:
Chairman, Admissions Committee
University of Manitoba
Faculty of Medicine
753 McDermot Avenue
Winnipeg, Manitoba
Canada R3E 0W3
(204) 788-6558

General Information. The Manitoba Medical College was established in 1883 and from its beginning was affiliated with the University of Manitoba. The first class of six graduated in 1886. In 1918 the Manitoba Medical College became the Faculty of Medicine of the University of Manitoba. In 1924 it received approval as a Class A medical school. The medical buildings are adjacent to the Health Sciences Centre in Winnipeg, which is some distance from the main university campus.

Teaching hospitals affiliated with the Faculty of Medicine are the Health Sciences Centre (Children's, Adult's, Women's, and Respiratory and Rehabilitation hospitals—1,064 beds); St. Boniface General Hospital (900 beds); Deer Lodge Veterans Hospital (500 beds); Grace Hospital (306 beds); Seven Oaks Hospital (336 beds); Victoria Hospital (254 beds); and Misericordia Hospital (409 beds).

Curriculum. Medicine is a four-year course at the University of Manitoba. In the first and second years there are, on the average, 30 hours of formal instruction per week for 38 weeks. In the first year 14 weeks are devoted to normal human biology, 13 weeks to integration of structure and function of individual organ systems, and the final 9 weeks to general mechanisms of disease. The second year is devoted to clinical sciences and acquisition of basic clinical skills. The third and fourth years are devoted to preclerkship (16 weeks); clerkship (seven clerkships of 8 weeks duration each); elective (8 weeks); and basic science review. A pass/fail system of evaluating student performance has been adopted, and, consequently, no rank in class or grades is given.

Requirements for Entrance. The MCAT and a bachelor's degree are mandatory. The academic requirements for admission are clear senior matriculation (comparable with sophomore matriculation in U.S. colleges) and the completion of three premedical years of 32 weeks each (15 full courses) in the Faculty of Arts and Science of the University of Manitoba or its equivalent.

The following subjects must be included in the course of study:

	Credit hrs.
Biochemistry	6
English	6

In other respects, the content of the course work must satisfy either the university's B.A. or B.Sc. degree requirements, with a minimum of 18 hours in the social sciences/humanities and 18 hours in the natural/physical sciences.

Selection Factors. Selection by the Committee on Admissions is made primarily on the basis of a composite score, calculated as follows: *(i)* adjusted grade-point score: maximum, 40 percent; *(ii)* MCAT score: maximum, 30 percent; and *(iii)* personal assessment score: maximum, 30 percent. The personal assessment score is based on an autobiographical essay of approximately 800 words, a standardized questionnaire sent to references named by the applicant, and the results of a 40 minute interview with a panel of at least three interviewers. Ninety percent of the 80 places available in the entering class are filled in this way. However, about 10 percent of successful applicants with acceptable but noncompetitive undergraduate performance may be selected on the basis of special premedical experience (educational or occupational) of relevance to the study and practice of medicine. Preference is given to undergraduates and graduates of the universities in Manitoba who are Canadian citizens. At the discretion of the committee, a limited number of places may be made available to undergraduates of other universities. The school does not discriminate on the basis of race, sex, creed, or national origin.

Applicants for the 1989 entering class with a minimum GPA of 3.50 were interviewed, and 57 percent of those interviewed were enrolled.

Financial Aid. Under the Canadian Students Loan Act, Canadians can obtain interest-free loans during their undergraduate

course in medicine. Bursaries from the university and from the provincial government are available to deserving students. Students may also obtain assistance from the W. K. Kellogg Student Loan Program and from the College of Physicians and Surgeons (Manitoba) Loan Fund. A few scholarships of smaller amounts are also available.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991-92 First-Year Class

Filing of application
  Earliest date: Oct. 1, 1990
  Latest date: Jan. 6, 1991
School application fee to all applicants: $35 (in-province); $75 (out-of-province)
Oldest MCAT scores considered: 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: June 15, 1991
  Latest date: June 25, 1991
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: Aug. 1, 1991
Estimated number of new entrants: 80
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition: $2,375
Student fees: $41

Information on 1989-90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	156	33	189
Applicants Interviewed	140	0	140
New Entrants*	80	0	80

*100% took the MCAT; 98% had baccalaureate degrees.

Memorial University of Newfoundland
Faculty of Medicine

Dr. D. Hawkins, Dean of Medicine
Dr. H. B. Younghusband, Assistant Dean for Admissions
Vera Finn Griffin, Officer for Admissions
and Student Affairs

Address inquiries to:
Chairman, Committee on Admissions
Memorial University of Newfoundland
Faculty of Medicine
St. John's, Newfoundland
Canada A1B 3V6
(709) 737-6615

General Information. Memorial is the only university in the province of Newfoundland. The university was established as Memorial College in 1925 and incorporated as a university in 1949. In 1959 campus buildings were erected on a 1,000-acre site. There are some 10,000 undergraduates and a faculty of about 1,000 (including visiting professors) working on the campus, which is situated on the periphery of St. John's. The medical school is one of the four most recently established in Canada. It is housed in the Health Sciences Centre with General Hospital (320 beds) and a biomedical library.

Approved teaching programs for interns and residents are under the direction of the medical school. These programs are based at associate hospitals in St. John's and other provincial centers with a total bed complement of 3,116 covering inpatient and outpatient services in virtually all branches of medicine. Research work is being conducted both in the hospitals and in the Health Sciences Centre.

Residences for single and married students are provided on the campus, and the university maintains a list of approved off-campus accommodations. A health service is open to all students.

Curriculum. The curriculum, the physical structure, and the administrative organization of the school were planned to allow for maximum cooperation between the various basic medical and clinical disciplines. A minimum of two years of premedical study (at least one year beyond senior matriculation) will be followed by the medical course and a bachelor of medical science degree awarded at the end of the second year of the medical course. The M.D. degree will be granted on completion of the fourth year, at which time Medical Council of Canada Examinations may be taken. The fourth year will be a clinical clerkship similar to the traditional internship.

During the first year of the medical program, students study cell structure and function, biochemistry, physiology of excitable tissues, molecular genetics, nutrition/pharmacology, microbiology, and core anatomy and take courses in behavioral science and community medicine. They are introduced to patients in the hospital and in the community, and these opportunities are provided in a wide range of medical settings—family practice, general hospital, cottage hospital, and public health programs.

Teaching in subsequent years will have a systems approach; material from anatomy, physiology, pathology, and clinical medicine will be presented in an integrated manner. A considerable portion of time is given for electives in the first, third, and fourth years. These electives take the form either of projects in which the student will investigate research problems or of a more formal in-depth study of a particular subject.

The first academic year of medicine comprises approximately 39 weeks. The second and third years consist of approximately 70 weeks (five semesters). The fourth year (clinical clerkship) has three semesters with 64 weeks.

Requirements for Entrance. The MCAT and a minimum of two years of college are required. All applicants, with the exception of those in second year university, must take the MCAT prior to the application deadline. Those in second year university must take the MCAT before May of the year in which they intend to enter medical school.

The minimum academic requirements for admissions are 20 courses (each of one semester's duration or the equivalent). The course of study must include two courses in each of the following:

	Semesters
General chemistry	2
Organic chemistry (second-year level)	2
College mathematics	2
English	2

Selection Factors. The school admits students on the basis of residency priority as follows: bona fide residents of Newfoundland and Labrador, New Brunswick, the rest of Canada and elsewhere. In every case a high academic standard is required. Memorial University does not discriminate on the basis of race, sex, creed, national origin, or handicap. Age by itself is not used as a basis for selection or rejection. However, both age and length of time away from full-time academic studies may be taken into consideration.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: Sept. 20, 1990
  Latest date: Dec. 15, 1990
School application fee to all applicants: $25
Oldest MCAT scores considered: 1987
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: April 24, 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 14 days
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 56
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition: $1,280

Student fees: $166

Information on 1989–90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	161	429	590
Applicants Interviewed	86	71	157
New Entrants*	42	14	56

*100% took the MCAT; 39% had baccalaureate degrees.

Dalhousie University
Faculty of Medicine

Dr. T. J. Murray, Dean
Dr. R. Wayne Putnam, Associate Dean, Admissions and Student Affairs
Robert D. Tennant, Jr., Assistant Director of Awards

Address inquiries to:
Brenda L. Detienne
Admissions Coordinator
15th Floor, Sir Charles Tupper Medical Building
Dalhousie University
Halifax, Nova Scotia
Canada B3H 4H7
(902) 424-1874

General Information. Dalhousie University, a privately endowed institution founded in 1838, established a Faculty of Medicine in 1868. The main responsibility of the Faculty of Medicine is to the three Maritime Provinces of Canada (Nova Scotia, New Brunswick, and Prince Edward Island), which have a population of some 1.6 million.

The teaching hospitals located in the immediate vicinity of the medical school have a total of 2,500 beds covering inpatient and outpatient services in all branches of medicine.

University housing and comprehensive Student Health Service are available.

Curriculum. A four-year course of study in medicine is aimed at providing a basic education that would permit a student to enter any branch of postgraduate training.

The academic year for Medicine One and Medicine Two begins early in September and extends to the end of May. Medicine Three begins in late August/early September and ends in March. Medicine Four begins in March and extends until May of the following year. The M.D. degree is granted upon successful completion of the fourth year.

The material presented in the curriculum follows a phase concept—from normal to abnormal to clinical. The first year consists mainly of departmentally administered courses in the basic sciences. The second year is a combination of departmentally administered courses and interdisciplinary courses dealing with organ systems. The third and fourth years are predominantly clinical, with the years being broken into a series of rotations within the various clinical disciplines. Starting in the first year, Dalhousie students have extensive patient contact hours, as the school places great emphasis on the development of clinical skills. Teaching methods include lectures, laboratories, independent learning, and bedside teaching.

In addition to the basic M.D. program, Dalhousie offers a bachelor of science-M.D. program, an M.D.-Ph.D. program, and a "Two-in-Three" program, which offers the student the option of doing two academic years over three chronological years.

A rotating internship and straight internships in medicine, pediatrics, psychiatry, and family medicine are available. These university arranged and supervised programs are conducted with the cooperation of hospitals in the Maritime Provinces, which provide the facilities of one or more of their clinical services. Participating hospitals differ from year to year depending upon the requirements for the program.

The rotating internship consists of eight weeks each in internal medicine, surgery, obstetrics/gynecology, and pediatrics or four-week blocks devoted to psychiatry and emergency and elective experience and four weeks of vacation.

The Faculty of Medicine maintains an active program of continuing medical education for practicing physicians in the Maritime Provinces. An active research program is carried on in all the basic science departments and in most of the clinical departments.

Requirements for Entrance. A university degree, the MCAT (which must be taken one year prior to the expected date of entry and must not be more than three years old), and a valid first aid certificate from St. John Ambulance or its equivalent are absolute requirements. There are no absolute prerequisite courses required. The major objective is that premedical education emcompasses broad study in the physical, life, and social sciences and the humanities. The minimum requirement for entry, however, is a baccalaureate degree.

Background in the physical and life sciences will help a student to deal with the considerable load of scientific information involved in undergraduate medical study. Courses in the social sciences and humanities will be helpful in understanding human behavior in health and illness. The ability to communicate effectively, both orally and in writing is essential. The committee believes that attracting students with a rich variety of educational backgrounds is in the interest of all students. Such preparation supports the training of outstanding physicians.

The medical undergraduate student has to deal with a great deal more information per unit of time than is usually the case in university undergraduate programs in arts and science. Therefore, the Admissions Committee will consider not only the academic grades of applicants but the type and degree of difficulty of university courses completed.

Applications from very well qualified students from other provinces and countries will be considered for up to 10 percent of the entering places in each class. Unless such nonresident applicants have reasonable prospects of being accepted at their local medical school, they should not expect to be accepted at Dalhousie and would be well advised not to apply.

Selection Factors. In selecting students for admission, priority is given to residents of the Maritime Provinces. For the remaining places, preference is given to other Canadians.

Sources of information and factors considered by the Admissions Committee include: academic requirements, ability as judged on university records and on the MCAT, confidential assessments received from referees of the applicant's choice and from any others the committee may wish to consult, interviews (selected applicants only), place of residence, and health assessment. Detailed comments and explanations on these selection factors may be obtained in the Faculty of Medicine *Calendar.*

Dalhousie does not discriminate on the basis of race, sex, creed, national origin, age, or handicap.

Financial Aid. A few entrance scholarships and entrance bursaries are awarded to students in the first year who are residents of the Maritime Provinces. A number of bursaries and prizes are available in each year. The university maintains a loan fund which is interest-free until graduation. Applicants are advised not to plan to earn money in time-consuming work which may jeopardize their academic standing.

Information for Minorities. Students from minority groups will be considered on their individual merits.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991-92 First-Year Class

Filing of application
  Earliest date: Oct. 1, 1990
  Latest date: Nov. 15, 1990
School application fee to all applicants: $20
Oldest MCAT scores considered: Sept. 1988
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: Feb. 1991
  Latest date: June 1991
Applicant's response to acceptance offer
  Maximum time: 4 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 84
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Canadian: $2,266
  Non-Canadian: $3,966

Information on 1989-90 First-Year Class

Number of	*Maritime*	*Non-Maritime*	*Total*
Applicants	224	219	443
Applicants Interviewed	224	35	259
New Entrants*	80	4	84

*100% took the MCAT; 83% had baccalaureate degrees.

McMaster University
School of Medicine

Dr. Stuart M. MacLeod, Dean (Health Sciences)
Dr. Luis A. Branda, Chairman, Admissions Committee, Undergraduate Medical Programme
Laurel A. Stuart, Associate Registrar (Health Sciences)

Address inquiries to:
Admissions and Records (HSC)
Room 1B7-Health Sciences Centre
McMaster University
1200 Main Street West
Hamilton, Ontario
Canada L8N 3Z5
(416) 525-9140, Ext. 2114

General Information. The Faculty of Health Sciences at McMaster University offers major programs at all levels in medical education, in scientific research, and in health sciences. The clinical programs use the teaching hospital and extensive ambulatory facilities of the McMaster University Health Sciences Centre but also involve clinical teaching units at the major Hamilton hospitals and community health care centers. The Undergraduate Medical Programme was initiated in 1969, and the first class of students graduated in May 1972.

Curriculum. The three-year program (130 weeks of instruction) in medicine at McMaster uses an approach to learning that will apply throughout the physician's career. The components have been organized in a relevant and logical manner with early exposure to patients. Flexibility is ensured to allow for the variety of student backgrounds and career goals.

The graduates of McMaster's Undergraduate Medical Programme will have developed the knowledge, ability, and attitudes necessary to qualify for further education in any medical career. The general goals for students in the program include the following: the development of competency in problem-based learning and in problem solving, the development of the personal characteristics and attitudes compatible with effective health care, the development of clinical skills, and the development of self-directed learning.

To achieve the objectives of the Undergraduate Medical Programme, students are introduced to patients and their problems with the first unit. They are presented with a series of health care problems and questions requiring the understanding of principles and data collection. Much of the student's learning occurs within the setting of the small group tutorial. Faculty members serve as tutors/facilitators or as sources of expert knowledge.

Throughout the course students are evaluated in a variety of ways, especially by day-to-day assessment of performance.

The Undergraduate Medical Programme is arranged as a five-unit preclerkship sequence followed by a clerkship; there are additional elective opportunities, both in block periods (totaling 28 weeks) and concurrently with ongoing units. Unit 1 is a 15-week introduction to the determinants of health and illness—environmental, biologic, and behavioral. Units 2, 3, and 4 are 12-week units organized on the basis of organ systems, where biomedical and health care problems are analyzed in depth. Unit 5 is a 12-week integration unit, where case studies are considered on a conception-to-death continuum. The clerkship emphasizes the clinical application of concepts learned in the earlier units and consists of experience in inpatient and ambulatory settings. These include internal medicine, family medicine, surgery, psychiatry, obstetrics/gynecology, and pediatrics.

Requirements for Entrance. Completion of a minimum of three years at an accredited university with at least an overall second class (B) average is required. The MCAT is not required.

Applicants who are not Canadian citizens or landed immigrants in Canada will be accepted only when they are considered to be clearly more suitable on all criteria than Canadian candidates.

Both academic achievement and personal qualities are considered. Academic achievement is assessed on the basis of course grades. Personal qualities and attributes are assessed on the basis of a submission written by the applicant, an autobiographical sketch, three references, a personal interview, and the performance in a simulated tutorial.

There are no course prerequisites.

Selection Factors. Students and members of the community and faculty are involved in the review of applicants. The aim is to select students who not only have the necessary academic standards but also display characteristics which are deemed to be important for the practice of medicine. These include characteristics that suggest sensitivity to the needs of the community; sensitivity to the emotional, psychological, and physical aspects of patients; the ability to detect and solve problems; the ability to learn independently; the ability to function as a member of a small group; and the ability to plan one's career in a way that reflects the needs of the community.

Applicants rating highest in academic achievement and in personal qualities will be invited for an interview. Some weighting according to bona fide residence will be applied according to the following priorities: Hamilton Health Region and Northwestern Ontario, other areas of Ontario, other Canadian provinces, and other countries. From these applicants, 100 students will be selected to fill the entering class.

Financial Aid. Medical students at McMaster, in addition to facing the general scarcity of financial assistance, are unable to rely on summer employment as a source of funds. In this situation, it is incumbent on students admitted to the Undergraduate Medical Programme to clarify immediately their fiscal situations and to secure or identify sufficient support to meet their financial obligations over the subsequent three years.

There are some government programs (available only to Canadians) and private agencies which offer financial assistance to medical students. The School of Medicine administers a very small loan and bursaries program with a view to supplementing financial resources of some students enrolled in the Undergraduate Medical Programme.

Fees and Expenses are in Canadian dollars.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in OMSAS. See Chapter 11.

Application must be made through Ontario
  Medical School Application Service (OMSAS),
  Ontario Universities' Application Centre,
  P.O. Box 1328, Guelph, Ontario
  Canada N1H 7P4
Filing of OMSAS application
  Earliest date: July 1, 1990
  Latest date: Nov. 1, 1990
OMSAS fee: $30 for one school applied to in
  Ontario; $10 for each additional school

School application fee: None
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: May 31, 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 14 days
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 100
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Canadian: $2,894
  Non-Canadian: $12,370

Student fees: $275

Information on 1989–90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	1,886	729	2,615
Applicants Interviewed	387	23	410
New Entrants*	93	7	100

*86% had baccalaureate degrees.

University of Ottawa
Faculty of Medicine

Dr. John F. Seely, Dean
Dr. Maurice Beaulieu, Assistant Dean,
Undergraduate Studies and Student Affairs
Danielle Delorme, Secretary

Address inquiries to:
Nicole Racine
Assistant to the Assistant Dean
University of Ottawa
Faculty of Medicine
451 Smyth Road
Ottawa, Ontario
Canada K1H 8M5
(613) 787-6463

General Information. The University of Ottawa received its charter from the province of Ontario in 1866. It was founded by the Missionary Oblates of Mary Immaculate, who were its administrators until 1965, when important structural reforms were introduced through an act of the legislative assembly of the province of Ontario. The management of the university is now under the Board of Governors consisting of members from various sectors of the community. The management, discipline, and control of the university are free from the restrictions and control of any outside body, whether lay or religious. The Faculty of Medicine was established in 1945. In 1978 the health sciences were regrouped into the Faculty of Health Sciences comprising the School of Medicine, the School of Nursing, and the School of Human Kinetics.

Curriculum. The Faculty of Medicine desires that all graduates have a comprehensive knowledge and a range of experience to qualify them for license to practice and to engage competently in primary or family health care and to permit them to move into any area of postgraduate training with firm capabilities as general physicians.

In the instruction given during the first two medical years, large class lecture time has been reduced while time spent in small group teaching, seminars, tutorials, and supervised study periods has increased. Interdepartmental courses have been introduced. The third year consists of six weeks of systems teaching and 24 weeks of full-time clinical clerkships. A 52-week clerkship in the fourth year may take the place of the post-M.D. rotating internship. Graduates may omit the latter and proceed to a straight internship year.

April 1 is the deadline to submit an application for transfer for the following September. The structure of the curriculum of the Faculty of Medicine precludes consideration of transfers from another medical school to any but the second medical year should there be a vacancy. Because of the teaching of pathophysiology, admission to the third and fourth medical years cannot be granted. Transfer applicants should contact the Faculty of Medicine for specific requirements.

Requirements for Entrance. The MCAT is compulsory for admission.

Students in the following categories are eligible to apply for admission to the first year of the four-year program in the Faculty of Medicine.

1. Students who have completed successfully in an Ontario university the first two years of a B.Sc. or B.A. program. Required course work must include:

	Years
General biology or zoology	1
General or inorganic chemistry	1
Organic chemistry	1
Physics	1

2. Students of other universities who have completed studies equivalent to those listed above. (Equivalence is determined by the University of Ottawa Faculty of Medicine.)

Selection Factors. Academic excellence is the primary selection criterion used by the Admissions Committee. It is measured by an assessment of marks and by a comparison of the applicant's academic record in relationship with those of the other applicants.

Consideration for admission will be given primarily to those eligible candidates who have maintained an overall academic average during the university years of at least B+ (or the equivalent GPA). Due to the limited class size, it is to be noted that meeting the above minimum standard does not guarantee admission. No preference is given to academic achievement in one program over another as long as the prerequisites for eligibility have been met. Furthermore, in selecting the students, the Admissions Committee reserves the right to assess, in the applicant's program, the level of difficulty of the courses and/or their pertinence for future medical studies at the University of Ottawa and the performance achieved by the candidate in these courses. No quota is predetermined before the selection is made; each file meeting the requirements is studied individually.

No candidate will be admitted without an interview, and the rating of the interview and of other nonacademic data will be taken into account in the admission process.

Chances of being admitted are greatly reduced for candidates with a score below 8 in any of the MCAT subtests.

It is highly desirable that the candidate who has a broad exposure to biology and physical sciences also have a broad exposure to the arts, humanities, and social sciences.

In view of the limited number of places available, a candidate whose GPA is below 3.4 (scale of 4.0) has considerably less chance of being admitted, depending on the year's competition.

Sex, race, age, religion, and socioeconomic status play no part in the selection process. Only applications from Canadian citizens or landed immigrants or applications from children of alumni of the University of Ottawa can be considered.

The courses are given in English. Knowledge of both official languages of the university will be an asset (but not a prerequisite).

Applicants who are in the second year of a program at the time they apply must, before June 1, submit proof of their promotion to the third year of the same program, or no offer of admission will be made.

Financial Aid. Students who are Canadian citizens may apply to the Student Financial Aid Office of the university and to their respective provincial governments for grant or loan assistance. The Ontario Medical Association Bursaries and Loan Fund, the Kellogg Foundation Loan Fund, and a special bursaries fund are administered by the Awards Committee of the School of Medicine. The Association of Professors of the University also provides a limited number of bursaries. Most of these awards are made on the basis of demonstrable financial need and good academic standing.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in OMSAS. See Chapter 11.

Application must be made through Ontario
  Medical School Application Service (OMSAS),
  Ontario Universities' Application Centre,
  P.O. Box 1328, Guelph, Ontario
  Canada N1H 7P4
Filing of OMSAS application
  Earliest date: July 15, 1990
  Latest date: Nov. 1, 1990
OMSAS fee: $30 for one school applied to in Ontario; $10 for each additional school
School application fee: $13
Oldest MCAT scores considered: 1989

Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: May 31, 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 10 days
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 84
Starting date: Sept. 1991

Expenses per Year for 1989–90 First-Year Class

Tuition
  Canadian: $1,929
  Non-Canadian: $9,282

Student fees: $205

Information on 1989–90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	1,511	563	2,074
Applicants Interviewed	*	*	425
New Entrants†	67	16	83

*Data not available.
†100% took the MCAT.

Queen's University Faculty of Medicine

Dr. D. G. Sinclair, Vice Principal, Health Sciences and Dean, Faculty of Medicine
Dr. J. W. Kerr, Associate Dean, Undergraduate Medical Studies and Admissions
Thelma C. Rikley, Coordinator, Undergraduate Medical Education

Address inquiries to:
Admissions Office
Queen's University
Faculty of Medicine
Kingston, Ontario
Canada K7L 3N6
(613) 545-2542

General Information. Queen's University Faculty of Medicine, established in 1854, is an integral part of a university of more than 10,000 full-time students. The campus is situated within the city of Kingston, which is located on Lake Ontario at the origin of the St. Lawrence River and has an urban and suburban population of 98,000.

Preclinical instruction is given in buildings on the campus. Clinical instruction is conducted in the Kingston General Hospital, immediately adjacent to the campus, the Hotel Dieu Hospital, and a number of specialized hospitals.

Curriculum. The main objective of the four-year structured program is to develop in its students the knowledge, skills, and humane qualities necessary for expansion on graduation of their competencies either in breadth for a career in family medicine or in depth for a career in a particular discipline and, in either case, for continuation of their own education throughout their working lives. Curricula and educational methods are under continual scrutiny with this main objective in view.

The first two years embody a core curriculum designed to educate students in the analysis and formulation of health problems with a strong commitment to basic sciences. Clinical exposure is introduced in the first year in Medical Science Rounds, and in the second year small groups of students learn the interviewing and technical skills of the profession as well as the psychosocial aspects of medicine. Formal programs in clinical sciences also begin in the second half of the second year and form a continuum with those of the third year. A clinical clerkship begins at the end of the third year and extends for 56 weeks. It includes a six-week elective period and four weeks of selective experience. Grading is on the honors/pass/fail system.

Requirements for Entrance. The minimum academic requirement for admission is two full years of study at a university in any program beyond Grade XIII or its equivalent.

Credit for one full university course, including laboratory work, is required in each of the following subjects: general chemistry, organic chemistry, general physics, and general biology or zoology. Normally, prerequisites should have been taken no more than four years prior to application.

All applicants are required to take the MCAT.

To be eligible for admission, candidates must be Canadian citizens, Canadian permanent residents (landed immigrants) by February 1 following submission of the OMSAS application, or the children of Queen's University alumni who are residents outside Canada.

Selection Factors. Seventy-five students are admitted annually into the first medical year and are selected on the basis of a strong academic record and assessment of personal characteristics considered to be most appropriate for the study of medicine at Queen's University and for the subsequent practice of medicine. In selecting applicants, the Admissions Committee considers all information submitted on behalf of the candidate. Sixty percent of the overall assessment is based on academic achievement and 40 percent on personal qualities.

Members of the Admissions Committee on Academic Assessment independently review scholastic achievement of applicants with no reference to personal information. Although a strong academic record is expected of successful candidates, the demands of the program, an improving academic profile, completion of a graduate degree, and factors (for example, illness) that may have affected scholastic achievement or performance at examination are important considerations when university transcripts are being assessed.

Members of the Admissions Committee on Non-Academic Assessment assess personal qualities without reference to data on academic scores of the candidates. Reviewing the autobiographic material presented by the applicant and the confidential assessment forms and letters of reference sent in support of the application, committee members independently assess applications with respect to specific categories such as aptitude, interpersonal skills, maturity, social concern, and choice of referees.

A numerical value is not placed on the MCAT. When a discrepancy exists between the overall assessment and the scores achieved on the Skills Analysis components of the MCAT of a candidate in the group to be offered admission or placed on the waiting list, that candidate will be required to meet with the interviewing team. Interviews will normally take place during the last two weeks of July and consist of three members of the Admissions Committee and the candidate.

Successful candidates must be deemed by the Admissions Committee to be acceptable in all aspects of the admissions process.

The Admissions Committee does not give preference to applicants who have studied in any particular university program. Applicants are encouraged to consider all of the undergraduate programs available to them and to embark on the course of studies in which they have the greatest interest and that would prepare them for an alternate career should they not gain a place in medicine.

No preference is shown to applicants at any particular level of training. The baccalaureate degree is not required, and candidates who have completed two or three years of university will be given the same consideration as candidates possessing an undergraduate or graduate degree.

Place of residence and location of the university where studies have been undertaken are not criteria in selection.

Applications will be accepted from qualified candidates seeking admission into the second medical year; however, offers of admission can be made only if the number of students registering in the second year is less than 75. To be considered for admission with advanced standing, applicants must have satisfactorily completed all of the work of the first year of medicine at Queen's.

Students entering in 1989 presented the following MCAT profile (mean score and range): *B*-9.08 (5–13), *C*-10.05 (6–13), *P*-9.42 (5–14), *SP*-9.22 (4–13), *SA:R*-8.60 (4–12), *SA:Q*-9.05 (4–14).

Financial Aid. Numerous scholarships and prizes are awarded at the end of each year. A number of bursaries and loan funds are available and may be applied for in any year of the program. Ontario students are also eligible for assistance under the Province of Ontario Student Assistance Program.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991–92 First-Year Class

School participates in OMSAS. See Chapter 11.

Application must be made through Ontario Medical School Application Service (OMSAS), Ontario Universities' Application Centre, P.O. Box 1328, Guelph, Ontario Canada N1H 7P4
Filing of OMSAS application
  Earliest date: July 1, 1990
  Latest date: Nov. 1, 1990
OMSAS fee: $30 for one school applied to in Ontario; $10 for each additional school
School application fee: None
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: May 31, 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 75
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Canadian: $1,929
  Non-Canadian: $8,479
Student fees: $199

Information on 1989–90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	1,552	619	2,171
Applicants Interviewed	20	0	20
New Entrants*	64	7	71

*100% took the MCAT; 39% had baccalaureate degrees.

University of Toronto
Faculty of Medicine

Dr. J. H. Dirks, Dean
Dr. L. E. Cappe, Assistant Dean, Admissions
Irene Kavanagh, Awards Officer

Address inquiries to:
University of Toronto
Faculty of Medicine
Toronto, Ontario
Canada M5S 1A8
(416) 978-2717

General Information. The medical school was founded in 1843 as part of King's College, which later became the University of Toronto. The school is a faculty of the university and, as such, receives support from the government of Ontario.

Curriculum. The four-year curriculum is primarily systems oriented. The first year is devoted to the study of normal structure and function and consists of lectures, seminars, and laboratory instruction in the basic medical sciences. The second and third years cover the mechanisms of disease in an integrated didactic-clinical program. Teaching is conducted in the Medical Sciences Building and affiliated teaching hospitals. The fourth year is a 48-week clerkship carried on in the wards, laboratories, and ambulatory care units of the affiliated teaching hospitals. These include Sunnybrook, Toronto General, St. Michael's, Toronto Western, Wellesley, Princess Margaret, Mount Sinai, and Women's College hospitals, Addiction Research Foundation Clinical Institute, Hospital for Sick Children, and Clarke Institute of Psychiatry.

A joint M.D./Ph.D. program is offered in the Faculty of Medicine and the School of Graduate Studies for individuals wishing to make a commitment to research in addition to the practice of clinical medicine. Qualified students will undertake an integrated course load during the first two years, proceed with completion of the Ph.D. portion, and then return to the mainstream M.D. program. Interested individuals must apply to the Faculty of Medicine in the normal manner and submit a letter to the coordinator of the M.D./Ph.D. program indicating that they have applied to the Faculty of Medicine and would like to be considered for the joint program. Entry into the M.D./Ph.D. program is dependent upon acceptance into the M.D. program.

Requirements for Entrance. The MCAT is required. A minimum of Grade XIII/OAC plus two years of college (in a Canadian university) or Grade XII/OAC plus four years of college (in a non- Canadian university) is required. Applicants who have taken premedical studies in a university outside of Canada must have obtained a bachelor's degree equivalent to a Canadian bachelor's degree.

Enrollment in the first-year class is 252 students. Applications for transfer, on compassionate grounds, are considered from students attending other Canadian medical schools, if there are vacancies.

All applicants are required to have satisfactorily completed the following courses:

Biology or zoology (with lab): One full-year course either in Grade XIII/OAC or in an appropriate university level course.
General chemistry (with lab): A university course of one year's duration. Quantitative or qualitative analysis and physical chemistry are acceptable.
Organic chemistry (with lab): A university course of one year's duration.
Physics (with lab): One full-year course either in Grade XIII/OAC or in an appropriate university level course.

Applicants are advised that they are required to complete successfully an approved course in biometrics or statistics either prior to entry to the medical school or prior to the start of the second year.

Selection Factors. Applicants are judged initially upon their academic records. In addition, attention is paid to the results of the MCAT, statements of referees, and an autobiographical letter. Applicants may be requested to appear for an interview. Definite preference is given to Ontario residents. No more than 50 places will be offered to outstanding nonresidents, and of these, a maximum of 12 places will be offered to applicants with student visas. Sex, race, and religion are not considered in determining those applicants to whom places are offered.

Successful candidates must be deemed by the Admissions Committee to be acceptable in all aspects of the admissions process. This may include cumulative grade point average, MCAT scores, published papers, supervisor's letters, non-academic factors, English proficiency performance on interview, and any other criteria put forward by the Admissions Committee.

Financial Aid. Financial aid is available under the Province of Ontario Student Assistance Program and the Canada Student Loan Program. Applicants are referred to the publications of the Department of University Affairs for details of the regulations governing these awards. Applicants are advised not to plan to earn money in time-consuming work which may jeopardize their standing during the academic year.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in OMSAS. See Chapter 11.

Application must be made through Ontario
  Medical School Application Service (OMSAS),
  Ontario Universities' Application Centre,
  P.O. Box 1328, Guelph, Ontario
  Canada N1H 7P4
Filing of OMSAS application
  Earliest date: July 1, 1990
  Latest date: Nov. 1, 1990
OMSAS fee: $30 for one school applied to in Ontario; $10 for each additional school
School application fee: $50
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: May 1991
  Latest date: Until class is filled
Applicant's response to acceptance offer
  Maximum time: 10 days
Requests for deferred entrance considered: Yes
Deposit to hold place in class: None
Estimated number of new entrants: 252
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees
  Canadian: $2,159
  Non-Canadian: $9,556

Information on 1989-90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	1,729	578	2,307
Applicants Interviewed	238	14	252
New Entrants*	238	14	252

*100% took the MCAT; 40% had baccalaureate degrees.

University of Western Ontario
Faculty of Medicine

Dr. L. S. Valberg, Dean
Dr. J. A. Silcox, Assistant Dean, Admissions
and Student Affairs
C. F. Hill, Director, Student Awards

Address inquiries to:
Faculty of Medicine-Admissions
Health Sciences Addition–Room H120
University of Western Ontario
London, Ontario
Canada N6A 5C1
(519) 661-3744

General Information. The Faculty of Medicine of the University of Western Ontario had its origin in 1882 and came under the direct control of the university in 1912. The University of Western Ontario is a private university but in receipt of government grants in common with other universities of Ontario having faculties of medicine.

For the internship year students are free to choose any approved Canadian hospital or a university-affiliated hospital in the United States. The teaching hospitals, incorporating the clinical science departments, are approved for the graduate training leading to certification in the Royal College of Physicians and Surgeons of Canada.

Curriculum. The undergraduate medical curriculum provided by the Faculty of Medicine is designed to permit the acquisition of a core of fundamental knowledge and of the basic technical skills and to assist in developing attitudes that will form a basis for further postgraduate or graduate study leading to family medicine, other clinical specialties, and basic or clinical research.

Phases I and II span the first two years of the curriculum and are divided into six, 12-week trimesters each including an examination period. This phase is designed to provide the student with a solid grounding in the basic and clinical sciences. These phases are structured around a problem-based learning day in each week. In addition to problem-based learning days, students participate in early patient contact and clinical skills tutorials, laboratories, and lectures. Other courses in Phase I include anatomy, biochemistry, clinical methods 1, general pathology, genetics and early post-natal development, histology, medicine and society, microbiology, and physiology. Other courses in Phase II include: clinical methods 2, introduction to clinical clerkship 1, medical biophysics, microbiology, neurosciences, pharmacology, and systemic pathology.

Phase III is a single 10-week trimester at the start of the third year. In this time period the problem-based learning days will continue using more sophisticated clinical problems. Increased emphasis will be placed on tutorials in clinical skills, clinical sciences, and therapeutics. This phase is designed to integrate basic and clinical knowledge and skills in preparation for clerkship.

Phase IV, the clinical clerkship, is a 52-week integrated learning experience. The student becomes a member of a clinical care team taking major rotations in family medicine, medicine, obstetrics and gynecology, pediatrics, psychiatry and surgery. The clerkship provides students with an opportunity to participate in patient care in the hospital, clinic, and office setting. Under the supervision of faculty and more senior housestaff, clinical clerks are given graded responsibility in the diagnosis, investigation, and management of patients. At the end of Phase IV, students sit a comprehensive examination, which must be passed to begin Phase V.

Phase V spans the final 22 weeks of curriculum and courses include: selected topics, clinical selective, and electives 1, 2, and 3. During this phase students return to the classroom for 6 weeks for selected topics. During the remaining time, clinical selectives and electives are available. Selectives are completed locally from choices available to students. Electives are arranged entirely by the individual student and may be in any area (basic or clinical), at Western on in other centres.

Requirements for Entrance. The MCAT is required.

Eligible to apply are: *(a)* individuals who are in or who have successfully completed a second-year program at a recognized university, provided that the program has included a minimum of four honors courses or equivalent (as interpreted by the University of Western Ontario) within the first 10 courses (five in each year), or *(b)* individuals in the final year of or who have successfully completed a graduate or undergraduate degree program at a recognized university, provided the program has included at least five full or equivalent courses (of which three must have been honors/senior courses) in each of the last two undergraduate years. Graduate students will be expected to have completed all requirements (including submission of the thesis, if one is required) for their graduate degree prior to registration in the Faculty of Medicine.

Prior to being permitted to register in the Faculty of Medicine, all applicants who are granted admission will be required to have completed successfully one full laboratory course in biology, chemistry, physics, and organic chemistry and to have obtained credit for at least two full or equivalent courses from the faculties of arts and/or social science; one of these two courses must be literature (English) or history if the applicant does not have Ontario Grade XIII/OAC or equivalent English. These requirements are currently under review. Therefore, individuals planning to apply in future years should ensure their information is current. Applicants may direct inquiries to Faculty of Medicine-Admissions.

Selection Factors. Enrollment is limited. Admission to the Faculty of Medicine is competitive, and the possession of the minimum requirements does not assure acceptance. Applicants selected will be those who are considered best suited to meet the "Faculty Statement of Objectives." A statement score (essay) and an interview are included in the overall assessment of an applicant.

Applications will not be accepted from individuals who are not Canadian citizens or landed immigrants.

Financial Aid. Financial aid information may be obtained by contacting the Student Awards Office.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991-92 First-Year Class

School participates in OMSAS. See Chapter II.

Application must be made through Ontario
  Medical School Application Service (OMSAS),
  Ontario Universities' Application Centre,
  P.O. Box 1328, Guelph, Ontario
  Canada N1H 7P4
Filing of OMSAS application
  Earliest date: July 1, 1990
  Latest date: Nov. 1, 1990
OMSAS fee: $30 for one school applied to in
  Ontario; $10 for each additional school
School application fee: None

Oldest MCAT scores considered: 1977
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: May 1991
  Latest date: Sept. 1991
Applicant's response to acceptance offer
  Maximum time: 10 days
Requests for deferred entrance considered: No
Deposit to hold place in class: None
Estimated number of new entrants: 105
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989-90 First-Year Class

Tuition and student fees: $1,968

Information on 1989-90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	1,560	581	2,141
Applicants Interviewed	*	*	648
New Entrants†	88	17	105

*Data not available.

†100% took the MCAT; 46.2% had baccalaureate degrees.

Université Laval
Faculty of Medicine

Dr. Pierre Potvin, Dean
Dr. Guy Pomerleau, Chairman, Admission Committee
Dr. Guy Bélanger, Admission Officer

Address inquiries to:
Secretary, Admission Committee
Université Laval
Faculty of Medicine
Ste-Foy, Quebec
Canada G1K 7P4
(418) 656-2492

General Information. Université Laval, a private institution, was established in 1852 by a Royal Charter granted by Queen Victoria. It was named after Monsignor de Laval, first bishop of Quebec.

Research opportunities are provided in all the basic sciences and in many fields of clinical investigations. The clinical teaching is provided through a network of six major affiliated hospitals and five minor affiliated hospitals. Residence accommodations are provided for many students. There is a University Health Service for students as well as vocational guidance and counseling services.

Curriculum. The curriculum aims to prepare students to undertake any career in medicine. During the first two years, the program provides early introduction to clinical problems and interdepartmental teaching by both basic science and clinical faculty. This part of the curriculum is designed to be flexible and can be spread over three calendar years. The basic clinical clerkships are given in the third year and provide a basic exposure to each major clinical discipline, including family medicine. The fourth year is mostly elective. The curriculum is monitored by both faculty and students.

Requirements for Entrance. Since all instruction is in French, fluency in the French language is an essential prerequisite.

Under the present Quebec educational system, the minimum requirements are two years of college (Health Sciences Program) and the diploma of collegial studies of the Ministry of Education (D.E.C.).

For other applicants, the college curriculum should provide a wide cultural background, including behavioral and social sciences.

Specific course requirements are:

	Sem. hrs.
General biology (with lab)	8
General or inorganic chemistry (with lab)	8
Organic chemistry	8
General physics (with lab)	12
Mathematics through calculus	12
Must include analytical geometry, college algebra, and trigonometry.	
French	
Humanities	
Behavioral and social sciences.	

The MCAT is not required, although the scores are considered when available.

Selection Factors. Preference is given to applicants from the province of Quebec. However, a few outstanding French-speaking candidates are admitted from other Canadian provinces and the United States.

Candidates are selected on the basis of a few parameters: scholastic achievement primarily and personal interview, curriculum vitae, and letters of recommendation secondarily. Sex, race, religion, age, and socioeconomic status are not considered in the selection process.

Financial Aid. Financial aid is available to Quebec residents through the Bursaries Division of the Provincial Ministry of Education. Summer scholarships of $2,000 are also available to students who wish to devote their vacation period to research.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: Jan. 1, 1991
  Latest date: March 1, 1991
School application fee to all applicants: $15
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: May 1, 1991
  Latest date: Varies

Applicant's response to acceptance notice
  Maximum time: 10 days
Requests for deferred entrance considered: No
Deposit to hold place in class: None
Estimated number of new entrants: 146
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Canadian: $700
  Non-Canadian: $4,350

Student fees: $50

Information on 1989–90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	1,539	119	1,658
Applicants Interviewed	135	40	175
New Entrants*	129	11	140

*45% had baccalaureate degrees.

McGill University
Faculty of Medicine

Dr. Richard L. Cruess, Dean
Dr. Donald G. Lawrence, Associate Dean, Admissions
Judy Stymest, Director of Student Aid

Address inquiries to:
Admissions Office
McGill University
Faculty of Medicine
3655 Drummond Street
Montreal, Quebec
Canada H3G 1Y6
(514) 398-3517

General Information. The Faculty of Medicine was established as the original faculty of McGill University in 1829. It seeks to retain its character as an integral part of a diverse university with an international constituency by selecting students from a variety of academic backgrounds and providing them with a medical education which places emphasis upon both basic medical sciences and clinical medicine. There are five university teaching hospitals, seven affiliated teaching hospitals, and nine special research centers and units. Research opportunities, available at the undergraduate and graduate levels, are provided in all of the basic medical sciences and in many fields of clinical medicine. The university offers residential facilities and provides student services, including a health service.

The language of instruction is English.

The Faculty of Medicine is identical to a U.S. medical school from the point of view of accreditation, internship and residency training, and preparation for licensing.

Curriculum. The curriculum, which extends over four calendar years, is divided into five academic periods: Med I, beginning of September to end of June of first year (41 weeks), and Med II, beginning of September to March of second year (26 weeks)—basic biological and psychological sciences; Link Period, March of second year to February of third year (36 weeks)—clinical sciences and options; Clinical Clerkships, February of third year to April of fourth year (56 weeks)—clinical clerkships and electives; Ethics, Science, and Professional Development, April and May of fourth year (6 weeks)—ethics and jurisprudence, epidemiology and public health, and selected topics in medical science.

Requirements for Entrance. Applicants to the four-year program must have received, or be in the final year of a course of study leading to, a bachelor's degree. The course of study, whether in the natural or social sciences or the humanities, should be selected because it appeals to the intending applicant and offers a broad education and intellectual training. It should include English literature and composition and mathematics. Specific requirements include the MCAT and university level courses in each of the following:

	Credit hrs.
General biology (with lab)	6
Cellular biology	3
Molecular biology	3
General chemistry (with lab)	6
Organic chemistry (with lab)	6
Physics (with lab)	6

A university level course in biochemistry (6 credit hrs.) may be substituted for the cellular and molecular biology requirements.

A five-year program is restricted to residents of the province of Quebec who are attending the provincial colleges of general and professional education. Successful applicants take a medical preparatory year in the Faculty of Science before entering the four-year program.

Occasional vacancies created by attrition permit a very few students who are registered in another faculty or school of medicine to be accepted through advanced standing into the beginning of Med II (September of second year) or the beginning of the Link Period (March of second year) of the curriculum.

Selection Factors. Selection is based upon academic achievement and intellectual and personal qualities. Academic achievement is determined from the academic record in undergraduate and graduate studies and the results of the MCAT. Intellectual and personal qualities are assessed initially on the basis of an autobiographical letter and letters of reference. Factors taken into account in evaluating the academic record include, in addition to the actual grades, the subject matter and relative difficulty of the program of studies, trends in academic performance, and necessary work while attending college or a university. Selected applicants are invited for interviews which, except for applicants living in the western half of North America, are held in Montreal. Entrance is determined by a comparative assessment of the overall academic achievement and personal qualities, including the outcome of the interviews, of each applicant. Approximately two-thirds of the entering class are Quebec residents.

Students accepted into the 1989 entering class had the following academic profile: *mean GPA*, 3.7; *mean MCAT scores*, *B*-10.6, *C*-10.6, *P*-10.7, *SP*-10.6, *SA:R*-9.5, *SA:Q*-9.8.

Financial Aid. A limited amount of financial aid in the form of scholarships, bursaries, and loans is available to students in all years. Information is available from: Student Aid Office, McGill University, 3637 Peel Street, Montreal, Quebec H3A 1X1.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: Sept. 1, 1990
  Latest date: Nov. 15, 1990 (out-of-province applicants); Feb. 1, 1991 (Quebec resident applicants to 4-year program); March 1, 1991 (Quebec resident applicants to 5-year program)
School application fee to all applicants: $25
Oldest MCAT scores considered: 1987
Does not have Early Decision Program

Acceptance notice to regular applicants
  Earliest date: March 30, 1991
  Latest date: Varies
Applicant's response to acceptance offer
  Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer
Deposit refundable prior to: July 1, 1991
Estimated number of new entrants: 160
Starting date: Aug. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Canadian: $1,176
  Non-Canadian: $5,800

Student fees: $700

Information on 1989–90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	597	724	1,321
Applicants Interviewed	210	209	419
New Entrants*	100	50†	150

*100% of new entrants into four-year program took the MCAT and had baccalaureate degrees.
†Of this total, 11 entrants were U.S. citizens, and 5 were citizens of other foreign countries.

University of Montreal
Faculty of Medicine

Dr. Serge Carriere, Dean
Dr. Pierre Rivest, President, Admissions Committee

Address inquiries to:
Committee on Admission
University of Montreal
Faculty of Medicine
P.O. Box 6128, Station A
Montreal, Quebec
Canada H3C 3J7
(514) 343-6265

General Information. The Faculty of Medicine of the University of Montreal can be traced back to a school first established in Montreal in 1843 and incorporated in 1845 under the name of Ecole de Médecine et de Chirurgie de Montréal. In 1891 the school merged with the Faculty of Medicine of the Montreal Branch of Laval University, which had been founded in 1877. In 1920, by an act of the Quebec legislature, the Montreal Branch of Laval University was granted its independence, and the school of medicine became known by its present name.

All instruction is in French, and clinical instruction is carried out at 14 affiliated teaching hospitals and research centers.

Curriculum. The five-year curriculum is divided into three phases. Phase One (one and one-half years) is devoted to essentials in basic sciences: molecular and cell biology, behavioral sciences, medical genetics, gross anatomy, general histology, clinical immersion, physiology, environmental medicine, family and community medicine, social context of medical practice, pathology, immunology, pharmacology, life cycle, nutrition, and methods in epidemiology. During Phase Two (same duration as Phase One), morphology and function, both normal and abnormal, are presented in integrated multidisciplinary courses with clinical exposure. Introduction to clinical sciences is given between Phase Two and Phase Three; the latter consists of a clerkship of 80 weeks.

During the second and third years, students must take from 45 to 90 hours of elective courses offered by the medical school or other departments of the university. During the clerkship, three months are available for elective training. During the fourth year, students must take 45 hours of pharmacotherapy. Instruction is given both at the university building (courses and laboratory work) and in approved hospitals (clinical teaching). Combined M.D.-M.Sc. and M.D.-Ph.D. programs are available for qualified students.

Internship and residency training in the teaching hospitals is under the responsibility of the Faculty of Medicine. Various courses and symposia are organized by the continuing medical education division.

Requirements for Entrance. A thorough knowledge of the French language is a prerequisite. Under the present Quebec educational system, the minimum requirement is two years of college (Health Sciences Program) and the diploma of collegial studies of the Department of Education (D.E.C.).

The college curriculum should provide a wide cultural background. Course work must include: philosophy, behavioral and social sciences, French, English, mathematics (analytical geometry, calculus, college algebra, and trigonometry), and sciences (biology, inorganic and organic chemistry, and physics).

Selection Factors. Candidates accepted must be either Canadian citizens or landed immigrants, but due consideration will be given to French-speaking applicants from other provinces of Canada and from the United States. English speaking students must take a French test. Special consideration is given to Native American applicants. Selection of candidates is competitive and based on a global score derived from scholastic records, an aptitude test, and an interview. Interviews, conducted on the site of the medical school, are granted to about one quarter of the applicants selected from their scholastic records and aptitude test result. This interview can be eliminatory. For candidates holding an M.Sc. or Ph.D. degree, performance in research constitutes a decisive selection factor. A few places are kept for mature applicants with at least three years of work experience. No consideration is given to race, sex, creed, or age.

Some characteristics of the 170 students in the 1989 entering class were: *education*, 74 were from college, 91 had completed one to three years at the university level, 5 had M.Sc. or Ph.D. degrees, 8 had three years or more of work experience; *residence*, 163 were residents of the province of Quebec; *sex*, 102 were females.

Financial Aid. Financial aid is available to students through the Bursaries Division of the Department of Education, the Kellogg Foundation Loan Fund, the Scholarships and Loan Committee of the university, and the Jean Frappier Fund. Summer scholarships are also available.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application: March 1, 1991
School application fee to all applicants: $15
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: May 15, 1991
  Latest date: Until class is filled

Applicant's response to acceptance offer
  Maximum time: 14 days
Requests for deferred entrance considered: No
Deposit to hold place in class: None
Estimated number of new entrants: 170
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Canadian: $740
  Non-Canadian: $4,350

Student fees: $120

Information on 1989–90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	1,881	41	1,922
Applicants Interviewed	454	26	480
New Entrants*	163	7	170

*46.4% had baccalaureate degrees.

University of Sherbrooke
Faculty of Medicine

Dr. Michel A. Bureau, Dean
Robert Rouleau, Financial Aid Officer

Address inquiries to:
Admission Office
University of Sherbrooke
Faculty of Medicine
Sherbrooke, Quebec
Canada J1H 5N4
(819) 564-5208

General Information. Officially founded in February 1961, the Faculty of Medicine at the University of Sherbrooke is a French-speaking institution. It admitted its first students in September 1966.

As required by modern medical teaching, the Faculty of Medicine is integrated into a developing Health Sciences Center to serve all members of the health team. This center includes a modern 400-bed teaching hospital. A Department of Nursing offers several programs of study at university level.

Curriculum. The form of teaching is now a problem-based learning program. Formal lecturing has been reduced to a minimum. Audiovisual facilities, seminars, small group discussions, panels, field work, and case studies are used extensively. Most learning sessions integrate many disciplines representing various departments.

The M.D. degree is granted after successful completion of a four-year course. Students work in the hospital from the beginning of their first year. The fourth year is a 16-month clerkship starting immediately after the end of the third year.

Postgraduate programs are available in most departments leading to the M.Sc. or Ph.D. degree, and a diploma can be obtained in community health. Residency training is offered in all major specialties.

Requirements for Entrance. The minimum requirement for admission is two years of college under the present Quebec educational system—College d'enseignement general et professionel (C.E.G.E.P.). B.A. or B.Sc. degrees are fully acceptable. The minimum science curriculum is as follows:

Candidates with a B.A. or B.Sc. degree:

	Semesters
General biology (with lab)	2
General chemistry (with lab)	2
Organic chemistry (with lab)	2
General physics (with lab)	3
Mathematics through calculus Must include analytical geometry, college algebra, and trigonometry.	3

C.E.G.E.P. candidates:

College diploma (D.E.C.) with major in sciences.

The college curriculum should also provide a wide cultural background in the humanities (including philosophy and literature) and in the social and behavioral sciences (including history, psychology, and sociology). Fluency and reading ability in the French language are essential prerequisites.

The MCAT is not required.

Selection Factors. Admission to the Faculty of Medicine is based primarily on ability and premedical achievement, as demonstrated by scholastic records.

It is usually not possible to accept routinely nonresidents of the province of Quebec because of the very large number of qualified applicants from Quebec. However, several places (up to 15) are reserved for nonresidents from other provinces or countries who have a working knowledge of the French language.

Financial Aid. Financial aid is available to resident students through the Bursaries Division of the Provincial Ministry of Education, the Scholarships and Loans Committee of the university, and a few private foundations.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
  Earliest date: Nov. 1990
  Latest date: March 1, 1991
School application fee to all applicants: $15
Does not have Early Decision Program
Acceptance notice to regular applicants
  Earliest date: April 1991
  Latest date: May 15, 1991

Applicant's response to acceptance offer
  Maximum time: 15 days
Requests for deferred entrance considered: No
Deposit to hold place in class (applied to tuition): $75, due Aug. 1, 1991
Deposit refundable prior to: Aug. 31, 1991
Estimated number of new entrants: 100
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition
  Canadian: $835
  Non-Canadian: $8,700

Student fees: $205 plus $150 for teaching materials

Information on 1989–90 First-Year Class

Number of	*In-Province*	*Out-of-Province*	*Total*
Applicants	*	*	1,753
New Entrants†	85	8	93

*Data not available.
†16% had baccalaureate degrees.

University of Saskatchewan
College of Medicine

Dr. I. M. McDonald, Dean of Medicine
Dr. H. J. Spooner, Director of Educational Support and Development
Joyce Pitzel, Administrative Assistant, Admissions

Address inquiries to:
Administrative Assistant, Admissions
University of Saskatchewan
College of Medicine
Saskatoon, Saskatchewan
Canada S7N 0W0
(306) 966-6143

General Information. The University of Saskatchewan began teaching medical students in a two-year medical sciences program in 1926. The present college was introduced in 1953 with a four-year curriculum leading to the M.D. degree. In 1968 the curriculum changed to five years with a one-year premedical university requirement. The curriculum reverted to a four-year program in 1988 with a minimum two-year premedical requirement. In moving from a five- to a four-year curriculum, the College of Medicine did not admit any students in 1987, but there will be a graduating class each year.

Clinical teaching is based at the University Hospital, St. Paul's and Saskatoon City hospitals in Saskatoon, and the Plains Health Centre and General Hospital in Regina.

The maximum size of each entering class is 60 students.

Curriculum. The College of Medicine provides a curriculum leading to the general professional education of the physician; graduates may select careers in family medicine, specialty practice, public health, research, or teaching. During the course of the undergraduate M.D. curriculum, students may obtain a B.Sc. (Med.) degree in the basic medical sciences.

The curriculum consists of at least two years of premedical study followed by four medical years. The four years are divided into five phases: Phase 1 (8 weeks) provides students with an overview of the basic science disciplines appropriate to the understanding of medicine; Phase 2 (25 weeks) enables students to acquire specific knowledge in basic sciences; Phase 3 (14 weeks) enables students to acquire specific knowledge in those subjects bridging the basic and clinical sciences and to learn basic clinical skills; Phase 4 (47 weeks) enables learning of the principles, methods, and core clinical knowledge; Phase 5 (52 weeks of clinical clerkships) provides students with an opportunity to apply the knowledge, skills, and attitudes they have acquired to the management of patients. Learning in the basic and clinical sciences has been organized by body systems with a problem-solving emphasis. Significant time blocks have been reserved in phases 1-4 for independent study. Provision is made for clinical electives.

Requirements for Entrance. Two full years of university study are required after graduation from secondary school. The following courses or their equivalent are required:

	Credit hrs.
General biology (with lab)	6
General chemistry (with lab)	6
General physics (with lab)	6
Organic chemistry	3
English (lit. and comp.)	6
Social sciences or humanities (full course)	6

The MCAT is not required.

The applicant must be a Canadian citizen or landed immigrant.

Selection Factors. The Admissions Committee considers academic ability and personal qualities assessed through scholastic records, letters of recommendation, and results of a personal interview by a team of four persons. All candidates are interviewed during a weekend in March. At the time of selection, academic ability and personal qualities are weighted approximately 3:1. For the 1989 entering class, the average GPA was 84.9 percent, and the average interview score was 21 of a possible 24 points.

Financial Aid. Various loan funds and scholarships are available. A limited number of bursaries enable students to engage in research between the end of one academic year and the beginning of another.

Information for Minorities. Students from minority groups will be considered on their individual merits.

Fees and expenses are in Canadian dollars.

Application and Acceptance Policies for 1991–92 First-Year Class

Filing of application
Earliest date: Sept. 1, 1990
Latest date:
In-province: Jan. 15, 1991
Out-of-province: Dec. 1, 1990
School application fee to all applicants: $25
Does not have Early Decision Program
Acceptance notice to regular applicants
Earliest date: June 20, 1991
Latest date: June 30, 1991

Applicant's response to acceptance offer
Maximum time: 2 weeks
Requests for deferred entrance considered: Yes
Deposit to hold place in class (applied to tuition): $100, due with response to acceptance offer; nonrefundable
Estimated number of new entrants: 60
Starting date: Sept. 1991

Tuition and Student Fees per Year for 1989–90 First-Year Class

Tuition and student fees: $2,047

Information on 1989–90 First-Year Class

Number	*In-Province*	*Out-of-Province*	*Total*
Applicants	223	201	424
Applicants Interviewed	200	19	219
New Entrants*	60	0	60

*33.5% had baccalaureate degrees.

Chapter 12

Information on Medical Schools Offering Combined College/M.D. Programs for High School Students

Many of the medical schools providing programs of undergraduate college and medical education for high school students offer an accelerated course of study. These programs take a minimum of from six to eight years to complete. The first two to four years of the curriculum consist of undergraduate courses and include the necessary premedical requirements. At various stages, a graduate receives a bachelor's degree from the university and then the M.D. degree from the medical school on completion of the program. There are several schools which offer an integrated curriculum and are primarily designed for students entering from high school.

Admission is open to highly qualified high school seniors with a strong desire to pursue medicine as a career. State-supported schools generally do not admit many out-of-state applicants into their programs. Prospective applicants seeking admission to state-supported schools will have a better chance of acceptance at institutions located in their own state of residence. Private schools are, for the most part, more flexible; enrollment is generally not limited to state residents.

Academic prerequisites for admission vary among the schools conducting these programs but usually include the following subjects: introductory calculus, biology, physics, chemistry, English, and social studies. Any high school student who has an early aspiration to become a physician should consult with a guidance counselor to be certain that his curriculum incorporates those specific courses required for the program(s) in which the student would like to enroll.

The following program descriptions were compiled from responses to a questionnaire sent to all medical schools with programs of interest to high school students. For further information, please contact the schools directly.

Abbreviations

Listed below are the abbreviations used in the school entries in this chapter.

ACT Assessment—American College Testing Program Assessment

CEEB—College Entrance Examination Board

GPA—Grade-point average

MCAT—Medical College Admission Test

NBME—National Board of Medical Examiners

SAT—Scholastic Aptitude Test

University of California, Riverside, and University of California, Los Angeles, UCLA School of Medicine

Address inquiries to:
Student Affairs Officer
Division of Biomedical Sciences
University of California, Riverside
Riverside, California 92521-0121
(714) 787-4333

Purpose. This program offers an accelerated curriculum which allows receipt of a B.S. degree after four years of college work and the M.D. degree seven years after matriculation as an undergraduate freshman.

Requirements for Entrance. Admission to this combined-degree program occurs in two phases: first, admission from high school to the University of California, Riverside, as a freshman and second, admission to UCLA School of Medicine after completion of three undergraduate years at Riverside. Residents of California as well as out-of-state students are eligible to apply. For admission to Riverside, students are required to take the SAT and three achievement tests. One test must be in English composition, and one must be in mathematics. In addition, applicants are required to complete three laboratory science courses in chemistry, physics, or biology and qualify for immediate placement in calculus.

Selection Factors. To gain admission as a freshman in the combined-degree program at Riverside, an applicant must meet the selection criteria for the University of California. Subsequent admission to UCLA School of Medicine depends on the student's undergraduate science GPA at Riverside, nonscience and overall GPA, results of the MCAT taken in the fall of the junior year at Riverside, letters of recommendation including one from the student faculty advisor at Riverside, and a required interview. In the 1989-90 class entering UCLA School of Medicine from Riverside's combined-degree program, the 28 students had an average undergraduate GPA of 3.56, an average MCAT score of 10, and an average combined SAT score of 1,094.

Curriculum. This program leads to a baccalaureate degree granted by the University of California, Riverside, and the M.D. degree awarded by the University of California, Los Angeles, UCLA School of Medicine.

Students must complete work for a bachelor's degree. Requirements for that degree include three courses in the humanities, three courses in the social sciences, and five courses in the natural and physical sciences. Students major in biomedical sciences.

The curriculum for both degrees takes seven years to complete instead of the more traditional eight years. Study for the baccalaureate degree occurs during the first three years of the program and for the M.D. degree during the last four years. Students are expected to take parts I and II of the NBME examinations while at UCLA, but passing these examinations is not a graduation requirement.

Expenses. For California residents, there is no tuition for undergraduate work, but there are fees amounting to $549 per quarter. For out-of-state students, tuition is $1,933 per quarter for undergraduate work as well as fees of $549 per quarter. At the UCLA School of Medicine, annual fees for California residents total $1,620, while the cost to nonresidents per year is $5,799. These amounts are figures for 1989-90.

Financial Aid. Sources of aid are scholarships, grants, work-study, and student loans. Applicants can receive more information from the Financial Aid Office; University of California, Riverside; Riverside, California 92521-0209.

Application and Acceptance Policies for Undergraduate Portion at Riverside

Filing of application:	
Earliest date	Nov. 1
Latest date	Nov. 30
Application fee	$35
Acceptance notice:	
Earliest date	Feb. 1
Latest date	April 1
Applicant's response to acceptance offer:	
Maximum time	May 1
Deposit to hold place in class	$100; nonrefundable

Information on 1989-90 Class Entering UCLA School of Medicine from the Combined-Degree Program at Riverside

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	39	0	39
Applicants Interviewed	39	0	39
New Entrants	28	0	28

Howard University

Address inquiries to:
Director
Center for Preprofessional Education
P.O. Box 1124
Administration Building
Howard University
Washington, D.C. 20059

Purpose. The aims of this combined-degree program are to encourage bright young students to choose medicine as a career and to enter the Howard University College of Medicine for their medical education.

Requirements for Entrance. Students can be selected for this program during the senior year of high school or during the first year of college. There are no state residence requirements. Applicants are expected to have completed the following courses by the time they graduate from high school: at least two years of a foreign language; at least one year each of biology, chemistry, and physics; two years of mathematics; and four years of English, including literature. They must take either the SAT or the ACT Assessment.

Selection Factors. The academic factors considered in offering admission to an applicant are rank in high school class, GPA, and test scores. Applicants are expected to be in the top five percent of their high school class. In the 1989–90 entering class, the average GPA was 3.8, and the average SAT combined score was 1,200. ACT Assessment cumulative scores ranged from 22 to 25. Personal qualities considered include self-esteem, realistic self-appraisal, a realistic assessment of the medical profession, leadership, and superior writing skills. An interview is required.

Curriculum. This program leads to a bachelor's degree awarded by the College of Liberal Arts at Howard University and the M.D. degree granted by the College of Medicine, also at Howard.

Students must complete work for a baccalaureate degree. They are expected to complete at least 40 semester hours of humanities and social sciences to fulfill general education requirements and at least 46 semester hours of natural and physical science. Students meet with the director of the Center for Preprofessional Education to design a curriculum tailored to individual needs, and the specific course selection must have the adviser's approval. Students are encouraged to select a major of personal interest.

The curriculum for both degrees can be completed in six years. In the first two years the curriculum focuses on work toward the bachelor's degree and in the last four years on studies related to medicine. Students in this program must take the MCAT in April of the second year. Results of this test are a factor in gaining admission to the medical school phase of the combined-degree program. Students are also expected to take parts I and II of the NBME examinations while at Howard University College of Medicine, and they must pass these examinations for graduation from that school.

Expenses. In 1989–90 the annual tuition for students in the College of Liberal Arts is $2,500. There are also student fees, which are subject to change. Tuition in the College of Medicine for 1989–90 is $8,650.

Financial Aid. Information can be obtained from the Office of Financial Aid, Howard University, 2400 6th Street, N.W., Washington, D.C. 20059.

Application and Acceptance Policies for Undergraduate Portion

Filing of application:	
Latest date	April 1
Application fee	$25
Acceptance notice:	
Earliest date	Sept.
Latest date	May/June
Applicant's response to acceptance offer:	
Maximum time	2 weeks
Deposit to hold place in class	$125; nonrefundable
Starting date	Late Aug.

University of Miami

Address inquiries to:
Office of Admissions
University of Miami
P.O. Box 248025
Coral Gables, Florida 33124
(305) 284-4323

Purpose. The Honors Program in Medicine provides exceptionally motivated and talented students an alternative educational pathway to the study of medicine. The newly formed Honors Program in Engineering and Medicine (HPBM) trains physicians who can understand, utilize, and further advance biomedical engineering technologies in their areas of specialization.

Requirements for Entrance. Students are selected for both programs only during their senior year of high school. To be eligible to apply, students must have a minimum combined score of 1,300 on the SAT or a composite score of 31 on the ACT Assessment and take the CEEB Achievement Tests in English, mathematics, and either chemistry or biology. Residents and non-residents of Florida may apply. Applicants are expected to have completed eight semesters of English and mathematics and two semesters each of biology and chemistry by the time they graduate from high school.

Selection Factors. Academic factors taken into account in offering admission to an applicant are: scores on the standardized admissions tests; the quality of the high school curriculum, including the number and nature of advanced placement courses; the amount of university-level work already completed; as well as research awards and other distinctions won at the national level. In the 1989–90 class entering the HPM Program as college freshmen, the average combined SAT score was 1,376. The average score of students in this class for the CEEB Achievement Tests were: English Composition, 635; Mathematics II, 710; and Chemistry, 651. An interview at the university campus is required.

Curriculum. The HPM Program leads to a baccalaureate degree granted by the College of Arts and Sciences at the University of Miami and to the M.D. degree awarded by the University of Miami School of Medicine.

Students are required to complete a bachelor's degree. Minimum requirements for this degree include four semester courses each of humanities, and natural, and physical sciences. HPM students major in biology most frequently, followed by chemistry, microbiology, and immunology. An important educational innovation in the HPM Program is the Undergraduate Research Institute, which provides continuing research opportunities with stipends for students throughout the undergraduate years.

At the student's option, the HPM curriculum can take either six or seven years to complete. In years 1 and 2 of the six-year option, the curriculum focuses exclusively on work related to the bachelor's degree. In years 3 through 6, the curriculum is devoted to medical school courses. The HPBM curriculum takes eight years.

HPBM students spend four years in the College of Engineering and receive the B.S. degree in engineering sciences before entering medical school. HPM and HPBM students must take the MCAT examination. However, the results do not factor into subsequent promotion to the medical school at Miami. While at the medical school, students must take parts I and II of the NBME examinations. Passing the examinations is currently not a graduation requirement.

Expenses. The 1989–90 tuition for the undergraduate portion of these programs is $11,880 per year. The yearly tuition for the medical school is $16,425.

Financial Aid. Scholarships, work-study, loans, and state tuition vouchers are sources of financial assistance. Information on financial aid is available from the university's Office of Financial Assistance.

Application and Acceptance Policies

Filing of application:	
Earliest date	Oct. 15
Latest date for receipt of all materials	Jan. 15
Application fee	$30
Acceptance notice:	
Earliest date	March 20
Latest date	May 20
Applicants response to acceptance offer:	
Maximum time	14 days

Deposit to hold place in class (applied to tuition): $300; nonrefundable

Information on 1989–90 Entering Class

Number of	*Total*
Applicants	253
Applicants Interviewed	179
New Entrants	35

Northwestern University

Address inquiries to:
Office of Admission and Financial Aid
Northwestern University
1801 Hinman Avenue
Evanston, Illinois 60204-3060
(708) 491-7271

Purpose. The Honors Program in Medical Education, one of the oldest in the nation, provides highly motivated and gifted students an individualized undergraduate curriculum that shortens the premedical preparation and assures entry to medical school.

Requirements for Entrance. Students are selected for this program during the senior year of high school. Both residents and nonresidents of Illinois are eligible to apply. Applicants must meet the following high school course requirements: English, eight semesters; mathematics through calculus, eight semesters; chemistry, two semesters; physics, two semesters; biology, two semesters; foreign language, four semesters. They must take either the SAT or the ACT Assessment plus the CEEB Achievement Tests in English, Mathematics II, and Chemistry.

Selection Factors. Academic factors considered in selecting applicants include class rank, grades in high school, and scores on college entrance tests. Average test scores of students in the 1989-90 entering class were: SAT Verbal, 664; SAT Mathematics, 764; CEEB Achievement Tests—English, 664; Mathematics II, 781; Chemistry, 717. Nonacademic factors considered are motivation, concern for others, maturity, and involvement in extracurricular activities. An interview is required.

Curriculum. The degrees offered in the Honors Program include either a B.S. in Medicine from Northwestern University Medical School or a B.S. in Biomedical Engineering from the Technological Institute of Northwestern University and the M.D. degree from Northwestern University Medical School.

Students must complete requirements for a baccalaureate degree. The most frequent majors for that degree are biology, followed by biomedical engineering. Course requirements for the B.S. include: humanities, six quarters; social science, six quarters; and natural and physical sciences, 11 quarters.

The curriculum normally takes seven years to complete. In years 1 through 3, the curriculum consists entirely of courses in the liberal arts and sciences or engineering. In years 4 through 7, the curriculum focuses on medicine. By the spring of year 3, students must take the MCAT, but it is not a factor in admission to the medical school or in promotion. Students must also take Part I of the NBME examinations, but passing that examination is not a requirement for graduation from the Medical School.

Expenses. In 1989–90, tuition for the B.S. degree is $12,966 per year; tuition for the M.D. degree is $18,834 per year.

Financial Aid. Sources of aid include Northwestern University and federal, state, and private programs. Applicants can receive more information from the Office of Admission and Financial Aid.

Application and Acceptance Policies

Filing of application:	
Latest date	Jan. 15 of applicant's senior year of high school
Application fee	$30
Acceptance notice:	
Earliest date	April 2
Applicant's response to acceptance offer:	
Maximum time	3 weeks
Deposit to hold place in class	$200; nonrefundable
Starting date	Sept. 10

Information on 1989–90 Entering Class

Number of	*Total*
Applicants	765
Applicants Interviewed	240
New Entrants	62

Louisiana State University
School of Medicine in Shreveport

Address inquiries to:
Office of Student Admissions
Louisiana State University
School of Medicine in Shreveport
P.O. Box 33932
Shreveport, Louisiana 71130-3932

Purpose. This combined-degree program provides outstanding high school seniors with an opportunity to complete the prerequisite undergraduate preparation and medical school in six years.

Requirements for Entrance. Students are selected for this program during the senior year of high school. Only residents of Louisiana are eligible to apply. There are no specific high school course requirements. Applicants, however, must take the ACT Assessment for entrance to the program. In addition, students must take the MCAT at the end of their second undergraduate year in the program. MCAT scores and undergraduate grades determine whether students matriculate in medical school after two or three years of college.

Selection Factors. Academic and personal characteristics considered in offering admission to an applicant include: high school grades, letters of recommendation, extracurricular activities, maturity, leadership, and confidence. An interview is required. In the 1989-90 entering class, the average high school GPA was 3.7, and the average cumulative score on the ACT Assessment fell at the 96th percentile.

Curriculum. This program leads to the baccalaureate degree awarded by Louisiana State University and to the M.D. degree granted by the Louisiana State University Medical Center School of Medicine in Shreveport.

In years 1 and 2, the curriculum includes only course work for the bachelor's degree. Most students major in science and premedicine for their baccalaureate. They must meet specific course requirements for that degree: humanities, five semester courses; social sciences, five semester courses; and natural and physical sciences, 11 semester courses. It is important to note that in this program students do not have to complete work for a baccalaureate degree.

For the top half of each class, medical studies normally commence at the beginning of the third year and at the beginning of the fourth year for the remainder. Basic science is taught in years 1 and 2 of medical studies, and clinical medicine is presented in years 3 and 4.

Expenses. In 1989-90, residents of Louisiana paid $1,880 per year in tuition for years 1 and 2 and $4,775 per year for years 3 through 6.

Financial Aid. Scholarships and loans are the prime sources of financial aid available. More information can be obtained from: Director of Financial Aid, Louisiana State University—Shreveport, 8515 Youree Drive, Shreveport, Louisiana 71115.

Application and Acceptance Policies

Filing of application:	
Latest date	Feb. 15
Application fee	$30
Acceptance notice:	
Earliest date	March 1
Latest date	April 1
Applicant's response to acceptance offer:	
Maximum time	30 days
Deposit to hold place in class	None
Starting date	June

Information on 1989-90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	16	0	16
Applicants Interviewed	13	0	13
New Entrants	9	0	9

Boston University

Address inquiries to:
Associate Director, Admissions
Boston University
121 Bay State Road
Boston, Massachusetts 02215
(617) 353-2333

Purpose. The Combined-Degree Program, one of the oldest in the nation, provides an undergraduate premedical preparation, which emphasizes the humanities and social sciences, and affords a quality medical education even though the overall period of study is shortened.

Requirements for Entrance. Students are selected for the program at Boston University during the senior year of high school or after high school if they have not been enrolled in any other degree-granting program. Since Boston University is a private institution, there are no state residence requirements. Applicants are expected to have completed the following courses by the time they graduate from high school: four years each of English and mathematics (including calculus), three years of foreign language, and one year each of biology, chemistry, and physics. They must take either the ACT Assessment or the SAT and CEEB Achievement Tests in English Composition, foreign language, and Chemistry. The CEEB Achievement Test in Mathematics I or II is recommended.

Selection Factors. The academic factors taken into account in offering admission to an applicant include: the high school GPA, the SAT or ACT score, scores on the CEEB Achievement Tests, rank in high school class, and the nature of the applicant's high school curriculum. In the 1989–90 entering class, the average high school GPA was 3.94; the average combined SAT score was 1,380. CEEB Achievement Test scores were greater than 600, and rank in class was in the top 5 percent. Personal characteristics sought in applicants are motivation, maturity, and understanding of a career in medicine. An interview is required.

Curriculum. This program leads to a baccalaureate degree granted by the College of Liberal Arts in Boston University and to the M.D. degree awarded by Boston University School of Medicine.

Students must complete work for the baccalaureate degree. Requirements for this degree include 4 semester courses in the humanities, 5 semester courses in the social sciences, and 9 semester courses in the natural and physical sciences. The program is seven years in length with a six-year or eight-year option, and students have the option of taking modular courses in the third year.

Students in the Combined-Degree Program must take the MCAT after the second or third year of the program, but results of that test do not bear on subsequent admission to Boston University School of Medicine or on decisions about promotion in the program. They are also required to take parts I and II of the NBME examinations during the medical school portion of the program. Passing those examinations is not a requirement for graduation.

Expenses. In 1989–90 undergraduate tuition is $13,900 per year, and medical school tuition is $22,300 per year. Student fees are $195 per year.

Financial Aid. The usual sources of financial aid are available to students during the undergraduate portion of this program. Once into the medical school, students can qualify for need-based, low-interest, and government-sponsored loans. More information about aid can be obtained from the Office of Financial Aid at the undergraduate and medical school campuses.

Application and Acceptance Policies

Filing of application:	
Earliest date	Sept.
Latest date	Jan. 15
Application fee	$40
Acceptance notice:	
Earliest date	Mid-March
Latest date	April 15
Applicant's response to acceptance offer:	
Maximum time	May 1
Deposit to hold place in class	$200

for commuters, $400 for dormitory residents; nonrefundable

Information on 1989–90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	42	445	487
Applicants Interviewed	8	151	159
New Entrants	5	40	45

University of Michigan

Address inquiries to:
Inteflex Program
2715 Furstenberg
University of Michigan
Ann Arbor, Michigan 48109-0611
(313) 764-9534

Purpose. The primary goal of the Integrated Premedical/Medical (Inteflex) Program is to educate physicians who are scientifically competent, compassionate, and socially conscious and who can apply the insights gained in the study of the humanities and social sciences to the problems of medical practice.

Requirements for Entrance. Students are selected for this program during the senior year of high school. Both residents and nonresidents of Michigan are eligible to apply. Applicants are expected to have a solid background in mathematics and science. They must take either the SAT or the ACT Assessment and achieve a minimum score of 1,200 total on the SAT or 29 cumulative on the ACT Assessment.

Selection Factors. Academic factors considered in selecting applicants include the high school GPA, scores on college entrance tests, type of high school courses completed, teacher recommendations, and the quality of an impromptu essay written at the time of the admissions interview. Average test scores for 1989–90 in-state matriculants were 613 on the SAT Verbal, 693 on the SAT Mathematics, and 30 on the cumulative ACT Assessment; and 627 on the SAT Verbal, 713 on the SAT Mathematics, and 31 on the cumulative ACT Assessment for out-of-state matriculants. Maturity, clear expression of ideas, personality, ability to relate to others, motivation to study medicine, evidence of service to others, and potential to profit from the Inteflex Program are personal characteristics considered for admission. An interview is required.

Curriculum. Degrees offered in the Inteflex Program are a baccalaureate degree from the College of Literature, Science, and the Arts at the University of Michigan and a M.D. degree from the University of Michigan Medical School.

Students must complete requirements for a baccalaureate degree. The most frequentmajors for that degree are the biomedical sciences, followed by a social science. Course requirements for the baccalaureate degree include three semesters of humanities, three semesters of social science, three semesters of natural and physical sciences, four semesters of a foreign language, and two semesters of writing.

The curriculum normally takes seven years to complete. The proportion of the curriculum devoted to the liberal arts and medicine varies by year in the program. Liberal arts comprise 85 percent of the curriculum in year 1, 100 percent in year 2, 50 percent in year 3, and 10 percent in year 4. Courses in medicine constitute 15 percent of the curriculum in year 1, 0 percent in year 2, 50 percent in year 3, 90 percent in year 4, and 100 percent in years 5 through 7. As these percentages indicate, the study of basic sciences in medicine is integrated with the study of liberal arts. Other educational innovations include an Introduction to Patient Care Preceptorship in the first year, specially designed sequences in psychology and ethics, a special course on human sexuality, an emphasis on the social sciences and humanities, and curricular flexibility which allows the student to pursue additional studies as desired. Inteflex students do not take the MCAT. However, they must pass Part I and Part II of the NBME examinations to graduate from the Medical School.

Expenses. In 1989–90, annual tuition for in-state students is $3,152 during years 1 and 2 and $3,452 during year 3. For out-of-state students, it is $10,880 in years 1 and 2 and $11,680 in year 3. Medical school tuition in years 4 through 7 totals $9,956 per year for in-state students and $18,766 per year for out-of-state students. For all students, fees in years 1 through 3 are $136 per year; fees in years 4 through 7 are $68 per year.

Financial Aid. Sources of aid include grants, loans, work-study through the undergraduate Financial Aid Office, and various programs administered by the Financial Aid Office at the Medical School.

Application and Acceptance Policies

Filing of application:	
Latest date	Jan. 10 of applicant's senior year of high school
Application fee	$30
Acceptance notice	Mailed April 15
Applicant's response to acceptance offer:	
Maximum time	1 month
Deposit to hold place in class	$100; nonrefundable
Starting date	Early Sept.

Information on 1989–90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	153	287	440
Applicants Interviewed	152	48	200
New Entrants	35	9	44

University of Missouri—Columbia
School of Medicine

Address inquiries to:
Director of Admissions
University of Missouri—Columbia
School of Medicine
One Hospital Drive
Columbia, Missouri 65212
(314) 882-2923

Purpose. The goal of the Preprofessional Scholars Program of the University of Missouri-Columbia School of Medicine is to provide outstanding students a guaranteed admission to medical school while allowing them full flexibility in a traditional four-year undergraduate course of study of their own choosing. This is not a combined-degree program.

Requirements for Entrance. Students are selected for the program either during their senior year of high school or between their freshman and sophomore years of undergraduate study. Both residents and nonresidents of Missouri are considered for admission. There are no specific high school course requirements. Applicants are required to take either the ACT Assessment or the SAT. To be eligible for application, a student must have attained a composite score of at least 30 on the ACT Assessment or a combined score of 1,300 on the SAT.

Selection Factors. High school grades, course work (including honors courses), class rank, and scores on standardized admissions tests are the academic factors considered in offering admission to applicants. Maturity, concern for others, eagerness to learn, and leadership are some of the personal characteristics sought among applicants. An interview is required. Average test scores for the 1989–90 entering class were 31 on the ACT Assessment and a combined score of 1,350 on the SAT.

Curriculum. The eight-year program leads to a baccalaureate degree and the M.D. degree, both granted by the University of Missouri—Columbia. Special honors college electives are available to students who wish to enroll. These courses are health-care oriented and are taught by medical school faculty. Students are expected to take a minimum of 6 semesters in the natural and physical sciences. The curriculum is traditionally designed with no mix of liberal arts and medicine. While at the medical school students must take and pass parts I and II of the NBME examinations in order to obtain the M.D. degree.

Expenses. For 1989–90 the undergraduate tuition for residents is $1,745 for years 1 and 2 and $1,931 for years 3 and 4. For nonresidents it is $5,230 for years 1 and 2 and $5,788 for years 3 and 4. Medical school tuition for years 1 and 2 is $6,647 for residents and $10,437 for nonresidents.

Financial Aid. University scholarships and loans, and state and federal grants and loans are available. For more information at the undergraduate level, contact the Office of Student Financial Aid, UMC, 11 Jesse Hall, Columbia, Missouri 65211; or call (314) 882-7506. At the medical school level, contact Mr. Conway Jones, Financial Aid Coordinator, UMC School of Medicine, MA 202 Medical Science Building, One Hospital Drive, Columbia, Missouri 65212; or call (314) 882-2923.

Application and Acceptance Policies

Filing of Application:	
Earliest date	Oct. 1
Latest date	July 1
Acceptance notice:	
Earliest date	Oct. 15
Latest date	Aug. 15

Information on 1989–90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	59	5	64
Applicants Interviewed	42	2	44
New entrants	27	0	27

University of Missouri—Kansas City School of Medicine

Address inquiries to:
Council on Selection
University of Missouri—Kansas City
School of Medicine
2411 Holmes
Kansas City, Missouri 64108
(816) 276-1870

Purpose. This combined baccalaureate-M.D. degree program integrates the humanities, basic sciences, and clinical medicine throughout the curriculum so graduates will have the background for lifelong learning in order to meet the needs of their patients. It is one of the few U.S. programs in which the vast majority of students are pursuing a combined-degree.

Requirements for Entrance. The program is primarily designed for high school graduates who are entering college. Residents and nonresidents of Missouri are eligible to apply. An applicant's high school curriculum must include at a minimum eight semesters of English, including four semesters of writing; six semesters of mathematics; four semesters of science, including two semesters of a laboratory science; and six additional semesters of work in foreign language, English, mathematics, science, or social studies. Applicants must meet a minimum academic screen based on the ACT composite score and rank in high school class.

Selection Factors. Applicants' academic potential is judged by the quality of high school courses, rank in high school class, and scores on the ACT. In the 1989–90 entering class, the average ACT score fell at the 94th percentile, and the average rank in class was at the 95th percentile. Personal qualities include maturity, leadership, stamina, reliability, motivation for medicine, range of interests, interpersonal skills, compassion, and job experience. Qualified applicants are invited for a required interview.

Curriculum. The curriculum leads to a baccalaureate degree granted by the College of Arts and Sciences and the doctor of medicine degree granted by the School of Medicine.

Students must complete requirements for the bachelor's degree. Students may pursue any major offered in the college, but most major in biology or chemistry. Course requirements for the bachelor's degree include 21 semester hours of humanities, 18 semester hours of social sciences, and 50 semester hours of natural and physical sciences.

The curriculum normally takes six years to complete. During the first two years of the curriculum, students spend 75 percent of their time in course work related to the bachelor's degree. Conversely, in the last four years students spend 75 percent of their time in courses, clerkships, and electives related to the M.D. degree. Thus, the study of liberal arts, basic sciences, and clinical medicine is integrated throughout the entire curriculum. Beginning in year 1, students are involved with patients and the health care delivery system. Problem-solving plus learning and teaching in small groups are emphasized. Students are assigned a faculty adviser (docent), and younger students are paired with older students. During the last four years of the curriculum students attend a general medicine outpatient clinic for a half-day each week.

Students in this program do not take the MCAT. They must pass parts I and II of the NBME examinations for graduation.

Expenses. In 1990–91 estimated tuition and fees for years 1 and 2 are $8,213 in-state per year and $12,525 out-of-state. Years 3 through 6 in-state tuition and fees are $9,404 per year and $14,453 out-of-state.

Financial Aid. Contact the UMKC Financial Aid Office, 4825 Troost Avenue, Kansas City, Missouri 64110; or call (816) 276-1154.

Application and Acceptance Policies

Filing of application:	
Earliest date	Aug. 1
Latest date	Dec. 1
Application fee	$50 for nonresidents
Acceptance notice:	
Earliest date	March 15
Applicant's response to acceptance offer:	
Maximum time	No later than May 1
Deposit to hold place in class	$100; refundable
Starting date	End of Aug.

Information on 1989–90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	278	177	455
Applicants Interviewed	181	94	275
New Entrants	87	15	102

Washington University
School of Medicine

Address inquiries to:
Coordinator, Scholars Program in Medicine
Washington University
Campus Box 1089
One Brookings Drive
St. Louis, Missouri 63130
(314) 889-6000

Purpose. The Scholars Program in Medicine (SPIM) provides an eight-year program which should produce future leaders in American medicine. Entrants to the undergraduate phase of the program are given a provisional acceptance to Washington University School of Medicine and encouraged to concentrate on learning and scholarship by exploring broad areas of interest during their undergraduate years.

Requirements for Entrance. Students are selected for this program in the senior year of high school. There are no state residence requirements. There are no specific high school course requirements. Applicants are expected to take the SAT or the ACT Assessment. They must apply as freshmen to either the College of Arts and Sciences or to the School of Engineering and Applied Science at Washington University.

Selection Factors. Distinctive achievement in a challenging high school curriculum, character, attitude, interests, and motivation suitable for a career in medicine are the academic and personal characteristics considered in offering admission to an applicant. An interview is required. In the 1989–90 entering class, most students had a high school GPA equivalent to an A or A minus. The average SAT Verbal score was 665, and the average SAT Mathematics score was 730, and the ACT Assessment cumulative score was 31. An interview is required.

In order to be promoted into the School of Medicine, students in the SPIM must fulfill the premedical course requirements, maintain a 3.3 GPA, achieve at least the national average on the MCAT, and enroll in a course involving independent work or research.

Curriculum. The eight-year program leads to a baccalaureate degree and the M.D. degree, both granted by Washington University. Students must complete the baccalaureate degree, for which there are distribution requirements. The program endeavors to enable students to sample a wide range of subjects and take upper-level courses.

The curriculum follows the traditional pattern of four years typically devoted to bachelor's degree work and four years to work related to the M.D. degree. Students, however, begin their clinical experience as second-year rather than third-year medical students.

Expenses. Undergraduate tuition in 1989–90 is $13,600 per year and annual fees $136. Medical school tuition is $14,100 per year.

Financial Aid. Washington University scholarships and loans plus governmental loans are available. For more information write the Office of Financial Aid, Washington University, Box 1041, One Brookings Drive, St. Louis, Missouri 63130.

Application and Acceptance Policies

Filing of application:	
Latest date	Jan. 15
Application fee	$40
Acceptance notice:	
Earliest date	April 12
Applicant's response to acceptance offer:	
Maximum time	2 weeks
Deposit to hold place in class	$200; nonrefundable
Starting date	End of Aug.

Information on 1989–90 Entering Class

Number of	*Total*
Applicants	354
Applicants Interviewed	36
New Entrants	10

Rutgers University
and University of Medicine and Dentistry of New Jersey
Robert Wood Johnson Medical School

Address inquiries to:
Bachelor/Medical Degree Program
Nelson Biological Laboratory
Rutgers University
P.O. Box 1059
Piscataway, New Jersey 08855-1059
(201) 932-5270

Purpose. The program permits the early identification and admission of high quality medical students. It also integrates medical studies with liberal arts study.

Requirements for Entrance. Students are selected for this program at the end of the sophomore year of college. Residents and nonresidents of New Jersey are considered.

Selection Factors. An applicant's high school and college transcripts plus faculty recommendations are taken into account in offering admission. In the 1989-90 entering class, matriculants had achieved a 3.66 GPA at the end of two years of college. They had an average score of 503 on the SAT Verbal section and 613 on the Mathematics section. Maturity, motivation, and broad interests are personal characteristics sought in applicants. An interview is required. The MCAT is not used.

Curriculum. This program leads to the baccalaureate degree awarded by Rutgers University and to the M.D. degree granted by the University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School.

The program is eight years in duration. As indicated in the curriculum chart below, the basic sciences and the liberal arts are studied together during a four-year period.

Year	*Percent Liberal Arts*	*Percent Basic Sciences*
1	100	0
2	100	0
3	75	25
4	75	25
5	60	40
6	20	80
7	0	100
8	0	100

While in medical school, students must take and pass parts I and II of the NBME examinations.

Expenses. In 1989-90 residents of New Jersey paid $2,576 per year in undergraduate tuition and $9,093 per year in medical school tuition. In the same year, nonresidents paid $5,244 per year in undergraduate tuition and $11,933 annually in medical school tuition. Fees averaged $524 for undergraduates each year and $510 for medical students per year.

Financial Aid. Undergraduates should contact the Office of Financial Aid, Records Hall, College Avenue, Rutgers University, New Brunswick, New Jersey 08901.

Application and Acceptance Policies

Filing of application:	
Latest date	June 1 of sophomore year of college
Application fee	None
Acceptance notice:	
Latest date	July 1
Applicant's response to acceptance offer:	
Maximum time	2 weeks
Deposit to hold place in class	$50; refundable
Starting date	Aug.

Information on 1989-90 Entering Class

Number of	*Total*
Applicants	35
Applicants Interviewed	18
New Entrants	8

Brooklyn College
and State University of New York
Health Science Center at Brooklyn
College of Medicine

Address inquiries to:
Director of Admissions
1203 James Hall
Brooklyn College
Brooklyn, New York 11210
(718) 780-5044

Purpose. The aims of this program are to produce physicians who are humanists and to offer an economically sound path to medicine.

Requirements for Entrance. Students are selected in their senior year of high school. Residents and nonresidents of New York are considered. Applicants are expected to have completed the following high school courses: a full year of biology, chemistry, and physics plus mathematics through trigonometry. They must have a high school average of at least 90 and SAT combined scores of at least 1,100.

Selection Factors. The academic factors taken into account in offering admission to an applicant include: the high school GPA, SAT scores, New York State Regents Examination scores, Advanced Placement courses, and CEEB Achievement Tests scores. In the 1989–90 entering class, most students had a high school average of at least 92, and the median SAT combined score was 1, 310. Maturity and motivation are personal characteristics sought among applicants. An interview is required.

Curriculum. This program leads to a baccalaureate degree awarded by Brooklyn College and to the M.D. degree granted by the State University of New York Health Science Center at Brooklyn College of Medicine.

The baccalaureate program includes eight required semester courses in the natural and physical sciences, five semester courses in humanities, and three semester courses in the social sciences. Several of these classes are honors sections specifically for students in the B.A./M.D. program. Students may major in any subject, but nonscience majors are encouraged. Students must maintain a 3.2 undergraduate GPA to progress to the medical school. The MCAT is required, but it is not a factor in promotion.

The program is seven years in length with an eight-year option.

The four-year medical school program focuses on the M.D. degree exclusively. During medical school, students must take and pass parts I and II of the NBME examinations.

Expenses. In 1989–90 the undergraduate tuition for state residents is $1,250 per year and for nonresidents $2,550. The 1989–90 medical school tuition is $5,550 for state residents and $12,950 for nonresidents. Student fees cost an additional $120 per year.

Brooklyn College has no dormitory facilities, so students must commute or find lodging in the community. Dormitory space is available during the medical school portion of the program.

Financial Aid. Pell grants, Stafford Student Loans, work-study, and institutional scholarships are available. Applicants can receive more information from the Director of Financial Aid, 1203 James Hall, Brooklyn College, Brooklyn, New York 11210.

Application and Acceptance Policies

Filing of application:	
Earliest date	Nov. 1
Latest date	Jan. 5
Application fee	None
Acceptance notice	April 1
Applicant's response to acceptance offer:	
Maximum time	April 30
Deposit to hold place in class	None
Starting date	Early Sept.

Information on 1989–90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	81	5	86
Applicants Interviewed	58	2	60
New Entrants	25	0	25

New York University

Address inquiries to:
Graham R. Underwood, Ph.D.
Director, B.A./M.D. Program
New York University
College of Arts and Science
100 Washington Square East
Room 904 Main Building
New York, New York 10003
(212) 998-8160

Purpose. The goal of the B.A./M.D. program is to train broadly educated doctors who are interested in people and their place in society and who are excited about the science of medicine.

Requirements for Entrance. Students are selected for this program only during the senior year of high school. There are no state residency requirements. No specific courses are required. Applicants must take the ACT Assessment or SAT and either three CEEB Achievement Tests or three Advanced Placement Tests (one of which must be English in either case).

Selection Factors. Academic factors considered in offering admission include high school GPA, rank in high school class, and honors or advanced placement course work. The admissions committee looks very closely at each applicant's extracurricular and/or service activities, writing skills, knowledge of and enthusiasm for the medical profession, and general intellectual curiosity. Students with broad interests are sought. Minority applicants are encouraged to apply. Interviews at the College of Arts and Science and the School of Medicine are required. In the 1989–90 entering class, the high school GPA averaged 3.87 and the combined SAT score averaged 1,330.

Curriculum. The B.A./M.D. program is not accelerated. All students must complete four years of undergraduate education and four years of medical school.

Students earn a bachelor's degree, which includes completion of a major and the college's Liberal Education Program. Students in the combined-degree program are encouraged to pursue any liberal arts major they wish. Additionally, they are required to complete an independent interdisciplinary research project over a period of several semesters. Students must maintain a GPA of 3.5 while in college. They are not required to take the MCAT to advance to the medical school.

Expenses. The annual tuition and fees for the undergraduate portion of the combined-degree program totaled $13,386 in 1989–90. Tuition and student fees for the medical school portion of the program were $18,230 in 1989–90.

Financial Aid. Merit-based scholarships plus the usual loans, grants, and work-study programs are available. Applicants can receive more information from the Office of Financial Aid, 23 West 4th Street, New York, New York 10003.

Application and Acceptance Policies

Filing of application:	
Latest date	Feb. 1
Application fee	$45
Acceptance notice:	
Earliest date	April 1
Applicant's response to acceptance offer:	
Maximum time	May 1
Deposit to hold place in class	$200; nonrefundable
Starting date	Sept.

Information on 1989–90 Entering Class

Number of	*Total*
Applicants	400
Applicants Interviewed	46
New Entrants	12

Rensselaer Polytechnic Institute and Albany Medical College

Address inquiries to:
Admissions Counselor
Rensselaer Polytechnic Institute
Troy, New York 12180
(518) 276-6216

Purpose. The Six-Year Biomedical Program, begun in the early 1960s, offers qualified individuals the opportunity to earn the B.S. and M.D. degrees in six calendar years. Participants receive a strong science-based education in a technological university before entering Albany Medical College.

Requirements for Entrance. Students are selected for this program during the senior year of high school. Residents of New York as well as nonresidents of the state are eligible to apply. Applicants are expected to have completed the following courses by the time they graduate from high school: four years of English; one year each of biology, chemistry, and physics; and three years of mathematics (through trigonometry). They must take the SAT plus CEEB Achievement Tests in Mathematics I or II, English Composition, and a science. In lieu of these tests, ACT Assessment scores may be submitted.

Selection Factors. Academic factors considered in offering admission to an applicant include the quality and nature of course work in high school, performance in those courses, rank in high school class, and test scores. The 1989-90 entering class had an average score of 617 on the SAT-Verbal and 724 on the SAT-Math. Personal qualities sought in applicants are motivation, maturity, and personal development. An interview is required.

Curriculum. This program leads to a B.S. degree awarded by Rensselaer Polytechnic Institute and the M.D. degree granted by Albany Medical College.

Students must complete work for a bachelor's degree. Requirements for that degree include 18 courses in the natural and physical sciences and eight elective courses in the humanities and social sciences.

The curriculum for both degrees normally requires six years to complete. During the first two years of the program, spent at Rensselaer, the curriculum involves 70 percent premedical science courses and 30 percent liberal arts courses. The curriculum at Albany Medical College begins with the basic sciences although teaching is clinically-oriented and patient presentations are often included. Third- and fourth-year students take a combination of required clinical clerkships and electives.

Students admitted to the program are not required to take the MCAT for admission to Albany Medical College. Students are expected to take parts I and II of the NBME examinations while at Albany Medical College, but passing these examinations is not a graduation requirement.

Expenses. The tuition and fees for 1989-90 are $13,680 at Rensselaer and $18,000 at Albany Medical College.

Financial Aid. Sources of financial aid are: restricted and endowed scholarships based on need, merit scholarships, work-study, and student loans through federal and institutional programs. Applicants can receive more information by contacting the Financial Aid Office at Rensselaer Polytechnic Institute (518/276-6813) or at Albany Medical College (518/445-5435).

Application and Acceptance Policies

Filing of application:	
Earliest date	Sept.
Latest date	Jan. 15
Application fee	$35 (RPI); $60 (Albany Medical College)
Acceptance notice:	
Earliest date	Mid-Jan.
Latest date	Mid-April or until class is filled
Applicant's response to acceptance offer:	
Maximum time	May 1
Deposit to hold place in class	$250; nonrefundable
Starting date	Sept.

Information on 1989-90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	107	132	239
Applicants Interviewed	65	75	140
New Entrants	10	10	20

Sophie Davis School of Biomedical Education/ City University of New York

Address inquiries to:
Sophie Davis School of Biomedical Education
City University of New York
Office of Admissions
138th Street and Convent Avenue
New York, New York 10031
(212) 690-8256

Purpose. The purposes of this combined-degree program are to train primary care physicians who will work in medically underserved urban areas and to increase the number of minority physicians.

Requirements for Entrance. Students are selected for this program in the senior year of high school. Only residents of New York are eligible to apply. Applicants are expected to have completed the following courses by the time they graduate from high school: two semesters each of chemistry and biology and six to eight semesters of mathematics. They must take the ACT Assessment and a local mathematics placement test.

Selection Factors. Academic factors taken into account in offering admission to an applicant are: the high school GPA, scores on the ACT Assessment, and scores on the New York State Regents Examinations. In the 1989–90 entering class, the high school grades averaged 90.7, and the subscore on the Mathematics ACT Assessment averaged 27.9. Personal qualities sought in applicants include interest in people, concern for others, initiative, and leadership. An interview is required.

Curriculum. This seven-year program leads to a baccalaureate degree granted by the City College of New York and to the M.D. degree awarded by one of eight New York medical schools.

During the first five years of the program, students fulfill all requirements for the B.S. degree and study the basic sciences portion of the medical school curriculum. After successfully completing the five-year sequence and passing Part I of the NBME examinations, students transfer to one of the participating medical schools in New York for their final two years of clinical training. Students are expected to pass parts I and II of the NBME examinations to graduate.

There is a strong emphasis on humanities and social sciences courses. The introduction of community medicine courses with field work and medical biochemistry and anatomy during the undergraduate phase is an innovative feature of this program.

Expenses. In 1989–90, resident undergraduate tuition per year is $1,300. Student fees are $125. Tuition for the medical school portion of the program varies according to the school attended.

Financial Aid. Pell grants, New York State tuition assistance, and the City College of New York biomedical stipend are sources of financial aid. More information about aid is available from the Office of Student Affairs.

Application and Acceptance Policies

Filing of application:	
Earliest date	Oct.
Latest date	Jan. 15
Application fee	None
Acceptance notice	April 1
Applicant's response to acceptance offer:	
Maximum time:	1 month
Deposit to hold place in class:	None
Starting date:	Oct.

Information on 1989–90 Entering Class

Number of	*Total*
Applicants	232
Applicants Interviewed	134
New Entrants	63

State University of New York at Stony Brook

Address inquiries to:
Faculty Associate for Health Professions
Office of Undergraduate Studies
Library E3320
State University of New York
Stony Brook, New York 11794-3351
(516) 632-7032

Purpose. The purpose of this program is to provide for early selection of students for medical school. It does not take an accelerated approach to medical education.

Requirements for Entrance. Students are selected for this program at the end of their sophomore year in college. They must have completed one year of biology and one year of chemistry at the State University of New York at Stony Brook with a GPA of at least 3.0. Applicants must also take the SAT. Although preference for admission is given to residents of New York, nonresidents are eligible to apply.

Selection Factors. The following academic and personal factors are considered in offering admission to an applicant: a demonstrated ability to succeed in a medical school curriculum, love of learning, good scholarship, and a clearly defined program of research or study for the junior and senior years. Interviews are required. In the 1989-90 entering class, most of the students achieved a 3.7 GPA.

Curriculum. This eight-year program leads to the baccalaureate and M.D. degrees, both awarded by the State University of New York at Stony Brook.

Students must complete work for a bachelor's degree. The most frequent majors for that degree are biology and chemistry. Course requirements for the bachelor's degree include one semester of English composition, one year of a foreign language, and four semester courses in each of the following areas: humanities, social sciences, and the natural and physical sciences.

In this program students can begin to take medical school courses as early as their junior year as an undergraduate. Most, however, wait until after they have finished their bachelor's degree to begin their medical studies. The following chart depicts the emphasis of the curriculum during the eight-year span.

Year	*Percent Bachelor's Studies*	*Percent Medical Studies*
1	100	0
2	100	0
3	75-100	0-25
4	75-100	0-25
5	0-25	75-100
6	0	100
7	0	100
8	0	100

Students do not take the MCAT. They must take and pass parts I and II of the NBME examinations while in the medical school portion of this program.

Expenses. Tuition in 1989-90 for state residents amounts to $1,350 for each of the first four years of the program and $5,550 for each remaining year. For nonresidents, tuition during the same time period is $3,200 for each of the first four years of the program and $12,950 for the last four years.

Application and Acceptance Policies

Filing of application:	
Latest date	Mid-March (only currently enrolled Stony Brook sophomores are eligible)
Application fee	$50
Acceptance notice:	
Latest date	July 30
Deposit to hold place in class	None

Information on 1989-90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	12	1	13
Applicants Interviewed	7	1	8
New Entrants	5	1	6

Union College and Albany Medical College

Address inquiries to:
Associate Dean of Admissions
Union College
Schenectady, New York 12308
(518) 370-6591

Purpose. Stressing both the sciences and humanities, the Seven-Year Program in Medical Education offers students the opportunity to earn the B.S. degree and the M.D. degree in seven years.

Requirements for Entrance. Students are selected for this program during the senior year of high school. Residents of New York as well as nonresidents of the state are eligible to apply. Applicants are expected to have completed the following courses by the time they graduate from high school: four years of English, one year of biology, one year of chemistry, and three years of mathematics (at least through trigonometry). They must take either the ACT Assessment or the SAT and three CEEB Achievement Tests, specifically in Mathematics I or II, English Composition, and a science.

Selection Factors. Academic factors considered in offering admission to an applicant include the quality and nature of course work in high school, performance in those courses, rank in high school class, and standardized test scores. In the 1989-90 entering class, the average SAT score was 632 for SAT Verbal and 695 for SAT Mathematics. Personal qualities sought in applicants include motivation, maturity, and personal development. An interview is required.

Curriculum. This program leads to a bachelor's degree awarded by Union College and an M.D. degree granted by Albany Medical College.

Students must complete work for a bachelor's degree. Minimum requirements for this degree include 14 courses in the humanities and social sciences plus 22 courses in natural and physical sciences. Students take an interdepartmental major which combines work in two fields, one in the field of science and the other in a nonscience area. This requirement to major in both a science and in a nonscience is an important educational innovation offered at Union College.

The curriculum for both degrees requires seven years to complete. During the first three years of the program, spent at Union College, students devote 45 percent of their curricular time to the humanities and social sciences and the remainder to premedical sciences. Students take a course in health and human values during the summer before matriculation in the medical school. The first two years of medical education focus primarily on the basic sciences, although teaching is clinically oriented and patient presentations are often included. Third- and fourth-year medical students take a combination of required clinical clerkships and electives.

Students admitted to the program are not required to take the MCAT for admission to Albany Medical College. Students are expected to take parts I and II of the NBME examinations while at Albany Medical College, but passing these examinations is not a graduation requirement.

Expenses. The 1989-90 tuition and fees are $13,513 for study at Union College and $18,000 at Albany Medical College.

Financial Aid. Sources of financial aid include various programs based on need, student loans through federal and state assistance, work-study, and merit scholarships. Applicants can receive more information by contacting the Financial Aid Office at Union College (518/370-6123) or at Albany Medical College (518/445-5435).

Application and Acceptance Policies

Filing of application:	
Earliest date	Sept.1
Latest date	Dec. 31
Application fee	$35 (Union College) $60 (Albany Medical College)
Acceptance notice:	
Earliest date	Mid-Jan.
Latest date	Mid-April or until class is filled
Applicant's response to acceptance offer:	
Maximum time	May 1
Deposit to hold place in class	$200; nonrefundable
Starting date	Sept.

Information on 1989-90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	114	95	209
Applicants Interviewed	63	48	111
New Entrants	15	5	20

Case Western Reserve University

Address inquiries to:
Office of Undergraduate Admission
Tomlinson Hall
Case Western Reserve University
10900 Euclid Avenue
Cleveland, Ohio 44106-4901
(216) 368-4450

Purpose. This program is intended to provide college students with a greater sense of freedom and choice in the pursuit of a premedical baccalaureate degree.

Requirements for Entrance. Students are selected for this program during the senior year of high school. Both residents and nonresidents of Ohio are considered for admission. Applicants are expected to have completed the following courses by the time they graduate from high school: one year each of biology, chemistry, and physics and four years of mathematics. They must take either the SAT or the ACT Assessment and three CEEB Achievement Tests.

Selection Factors. The high school academic record, standardized test reports, the applicant's history of interests and activities, and a required interview are factors taken into account in offering admission to an applicant. Evidence of strong interpersonal and leadership skills is also sought. In the 1989–90 entering class, average test scores were 610 for the SAT Verbal and 700 for the SAT Mathematics, and the average high school GPA was 3.90.

Curriculum. This eight-year program leads to the baccalaureate and M.D. degrees granted by Case Western Reserve University. Students are expected to complete the requirements for any of the baccalaureate degrees awarded by the colleges of the university. They are expected to satisfy all requirements of and earn a baccalaureate prior to matriculating in the School of Medicine. The work taken for the baccalaureate must include the studies specifically required of applicants by the School of Medicine: one year of biology, two years of chemistry including organic chemistry, one year of physics, and freshman expository writing. No specific major concentration is required for the premedical undergraduate phase. To date, the major most commonly taken has been chemistry. Psychology has been the next most popular major.

The first four years of the program are devoted to study for the baccalaureate and the last four years to the curriculum for medicine. At present, students in the medical phase are not required to pass Part I of the NBME examinations for promotion within the program. However, all medical students are required to pass Part II of the NBME examination in order to graduate.

Expenses. In 1989–90 the tuition for the undergraduate phase of the program is $12,000 per year. Tuition and student fees in 1989–90 for the School of Medicine are $15,850 per year.

Financial Aid. Sources of aid for the undergraduate phase include student loans, work-study, and university grants and scholarships. For information about aid in the undergraduate phase, write the Office of Financial Aid, Pardee Hall, Room 109, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, Ohio 44106-4901. For information about financial aid during medical school, contact Financial Aid Officer, Room T303, School of Medicine, Case Western Reserve University, Cleveland, Ohio 44106.

Application and Acceptance Policies

Filing of application:	
Latest date	Jan. 19
Application fee	$20
Acceptance notice:	
Latest date	April 15
Applicant's response to acceptance offer:	
Maximum time	2 weeks
Deposit to hold place in class	$100

Information on 1989–90 Entering Class

Number of	*Total*
Applicants	215
Applicants Interviewed	40
New Entrants	8

Northeastern Ohio Universities College of Medicine

Address inquiries to:
Admissions Office
Northeastern Ohio Universities
College of Medicine
P.O. Box 95
Rootstown, Ohio 44272
(1-800) 686-2511 (in Ohio)
(216) 325-2511 (outside Ohio)

Purpose. The purpose of this College of Medicine is to prepare well trained medical doctors who can enter any field of practice, particularly at the community level. This is one of the few U.S. medical schools which exclusively offers a combined-degree program to its students.

Requirements for Entrance. Students are selected for this program during the senior year of high school. Both residents and nonresidents of Ohio are eligible to apply. Applicants are expected to have pursued a solid college preparatory curriculum, including four years of mathematics and four years of science. They must take either the ACT Assessment or the SAT.

Selection Factors. High school grades and test scores are the academic factors taken into account in offering admission to applicants. In the 1989–90 entering class, the mean high school GPA of matriculants was 3.93, and the average test scores of students were 28 on the ACT Assessment cumulative and 1,195 on the SAT combined. Career maturity and emotional maturity are among the personal qualities weighed by the admissions committee. An interview is required.

Curriculum. Students in this combined-degree program study for a baccalaureate degree granted by Youngstown State University, Kent State University, or the University of Akron and for the M.D. degree granted by Northeastern Ohio Universities College of Medicine.

Students must complete requirements for a bachelor's degree with a major in combined sciences, which include four semester courses in the humanities, four semester courses in the social sciences, and four semester courses in the natural and physical sciences.

For 60 percent of the students admitted, the curriculum takes six years to complete and for the remainder, seven years. In the first two years of the program, students spend 95 percent of their curricular time in undergraduate courses and the rest in medical courses. In years 3 and 4, they spend 75 percent of their time in medical studies and 25 percent of their time (the summer term) in undergraduate courses. The fifth year is completely focused on the study of medicine. In the sixth year, students devote 75 percent of their time to medicine and 25 percent to undergraduate course work. The integration of course work in medicine with undergraduate course work is a departure from the more traditional curricular schedule of four years of undergraduate work followed by four years of medical school. Further, most of the basic science courses, except pharmacology and pathology, are taught in just one year (year 3) in contrast to the two-year sequence offered by more traditional medical schools. In addition, during year 4 the medical course work is 60 percent clinical, with an emphasis on ambulatory care.

Students are expected to pass both Part I and Part II of the NBME examinations for graduation from Northeastern Ohio Universities College of Medicine.

Expenses. Tuition and fees for years 1 and 2 for 1989–90 are approximately $2,200–3,700 per 12-month year, depending on the university attended. Tuition for the medical school years (3 through 6) is $6,540 for academic year 1989–90 for Ohio residents and $12,540 for nonresidents. Additional student fees are $999.

Financial Aid. Sources of aid are scholarships, grants, loans, and work. For more information contact the Financial Aid Office at the Consortium Universities and Student Services Office at Northeastern Ohio Universities College of Medicine.

Admission Requirements

Application and Acceptance Policies

Filing of application:	
Earliest date	Sept. 1
Latest date	Dec. 31
Application fee	$20 or $25
Acceptance notice:	
Earliest date	April
Latest date	July
Applicant's response to acceptance offer:	
Maximum time	1 to 2 weeks
Deposit to hold place in class	None
Starting date	June or July

Information on 1989-90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	293	112	405
Applicants Interviewed	174	63	237
New Entrants	98	16	114

Gannon University
and Hahnemann University
School of Medicine

Address inquiries to:
Gannon-Hahnemann 7-Year B.S./M.D. Program
Gannon University
Office of Admissions
University Square
Erie, Pennsylvania 16541
(814) 871-7407

Purpose. The Cooperative Program for Education of Physicians in Pennsylvania emphasizes, but is not limited to, the preparation of family physicians.

Requirements for Entrance. Students are selected into the undergraduate phase of the program (Phase One) during the senior year of high school. They are reevaluated after three years at Gannon University for entrance into Hahnemann University School of Medicine. Only residents of Pennsylvania are considered for admission.

For entrance to Phase One, applicants are expected to have completed the following courses by the time they graduate from high school: algebra I and II, geometry, chemistry, and biology. Calculus and physics are preferred, but not required. Applicants also must take either the SAT or the ACT Assessment.

Selection Factors. Applicants for Phase One of the program must have a combined SAT score of 1,000 and a 3.0 high school GPA. They must rank in the top 20 percent of their high school senior class. In the 1989–90 entering class, matriculants had a GPA of 3.57 and a combined SAT score of 1,105. Personality, motivation, maturity, social awareness, responsibility, and conscientiousness are personal characteristics sought among applicants. An interview is suggested but not required for entry to Phase One.

An interview, however, is required for admission to the medical school phase (Phase Two) at Hahnemann University School of Medicine. Further, results of the MCAT, taken in the second semester of the third year of the program, are used in evaluating students for promotion and admission to Hahnemann.

Curriculum. This seven-year program leads to a baccalaureate degree from Gannon University and to the M.D. degree from Hahnemann University School of Medicine. Students are expected to complete work for a bachelor's degree, which they receive after the first year of medical school. Requirements for that degree include six semesters of humanities, two semesters of social sciences, and six semesters of natural and physical sciences. Most students in this program major in biology. The next most popular major is chemistry. During the undergraduate phase, students are offered clinical rotations, an educational innovation suggested in the following chart summarizing the curriculum.

Year	*Percent Liberal Arts*	*Percent Science/ Medicine*
1	24	76
2	35	65
3	50	50
4	0	100
5	0	100
6	0	100
7	0	100

While at Hahnemann, students must take and pass parts I and II of the NBME examinations in order to graduate with the M.D. degree.

Expenses. Undergraduate tuition for state residents is $7,000 per year plus $350 for student fees. Annual tuition at Hahnemann in 1989–90 is $18,070 plus $700 for student fees.

Financial Aid. For undergraduates, academic scholarships and various grants and loans offered by Gannon University, the state, and the federal government are available. Further information about aid can be obtained from the director of financial aid at Gannon University at (1-800) 352-0988 (in Pa.), (1-800) 458-0871 (outside Pa.), or 871-7482 (local). Request extension 7482.

Application and Acceptance Policies

Filing of application:
  Latest date .... Rolling admission
Application fee $25
Acceptance notice .... Ongoing
Applicant's response to acceptance offer:
  Maximum time .... 1 month
Deposit to hold place in class .... $200; nonrefundable

There were 69 applicants and 35 new entrants to Hahnemann University School of Medicine from the B.S./M.D. program at Gannon University.

Lehigh University and Medical College of Pennsylvania

Address inquiries to:
Office of Admissions
Alumni Building 27
Lehigh University
Bethlehem, Pennsylvania 18105
(215) 758-3100

Purpose. This program gives gifted high school students who are certain that they want to become physicians the opportunity to obtain a diversified education and to reduce their total educational cost.

Requirements for Entrance. Students are selected for this program during the senior year of high school. Residents and nonresidents of Pennsylvania are considered for this program. Applicants are expected to have completed the following courses by the time they finish high school: four years each of English and mathematics and two years each of history, science, and foreign language. Applicants are expected to take the SAT.

Selection Factors. Generally, a combined SAT score of 1,300 and rank in the top 10 percent of the high school class are necessary for entrance in this program. In 1989-90 matriculants had a high school GPA of 3.90, an SAT Verbal score of 653, and an SAT Mathematics score of 691. Maturity, stability, scholarship, flexibility, independence, and service to others are personal characteristics sought among applicants. An interview is required. Once admitted to the program, students are expected to take the MCAT in the spring of their second year. Results of that test are not a factor in medical school admission or promotion, however.

Curriculum. This program, normally six years in duration, allows students to obtain a bachelor's degree from Lehigh University and an M.D. degree from the Medical College of Pennsylvania.

Students are not required to complete work for the bachelor's degree, although most students do receive this degree in biology. Students are expected to complete 32 semester hours in the natural and physical sciences, and 12 semester hours in humanities and social sciences. The following chart shows the emphasis of the curriculum:

Year	*Percent Liberal Arts*	*Percent Medicine*
1	45	55
2	40	60
3	10	90
4	0	100
5	0	100
6	0	100

During medical school students must take parts I and II of the NBME examinations, although passing is not a requirement for graduation.

Expenses. In 1989-90, tuition at Lehigh University is $13,500 per year. Annual tuition in 1989-90 at the Medical College of Pennsylvania is $15,590 plus student fees.

Financial Aid. Institutional scholarships and loans are available, as well as federal loan programs and armed services scholarships.

Application and Acceptance Policies

Filing of application:	
Earliest date	Sept. 1
Latest date	Jan. 1
Application fee	$40
Acceptance notice:	
Earliest date	April 1
Latest date	April 15
Applicant's response to acceptance offer:	
Maximum time	May 1
Deposit to hold place in class	$300; nonrefundable
Starting date	Aug.

Information on 1989-90 Entering Class

Number of	*Total*
Applicants	155
Applicants Interviewed	52
New Entrants	14

Pennsylvania State University and Jefferson Medical College of Thomas Jefferson University

Address inquiries to:
Undergraduate Admissions Office
201 Shields Building
Box 3000
Pennsylvania State University
University Park, Pennsylvania 16802
(814) 865-5479

Purpose. This program, which began in 1963, is a cooperative effort between Pennsylvania State University and Jefferson Medical College of Thomas Jefferson University in Philadelphia. Students can earn both the B.S. and M.D. degrees in six calendar years after graduation from high school.

Requirements for Entrance. Students are selected for this program only during the senior year of high school. Both residents and nonresidents of Pennsylvania are considered for admission, but preference is given to qualified applicants from Pennsylvania. Applicants are expected to have completed the following courses by the time they graduate from high school: four units of English, one and one-half units of algebra, one-half units of trigonometry, three units of science, and five units of social studies, humanities, or arts.

Selection Factors. To be considered for this program, applicants must be in the top 10 percent of their high school class and offer a combined SAT score of 1,300 or higher. In the 1989–90 entering class, the average combined score on the SAT was 1,350. Motivation, compassion, integrity, dedication, and performance in nonacademic areas are among the personal characteristics sought in applicants. An interview is required.

Special attention is given to the student's progress during each semester at Pennsylvania State University. Students must take a full course load and maintain a minimum GPA of 3.5 in both science and nonscience courses. For subsequent admission to Jefferson Medical College, students in this combined-degree program must take the MCAT prior to matriculation into medical school.

Curriculum. This six-year program leads to a baccalaureate degree granted by Pennsylvania State University and to the M.D. degree awarded by Jefferson Medical College.

Students begin this program in June immediately after high school graduation. They spend two full years on the Pennsylvania State University campus and then proceed to Jefferson Medical College for their regular four-year curriculum. The B.S. degree from Pennsylvania State University is awarded after successful completion of the sophomore year at Jefferson Medical College, and the M.D. degree is awarded after successful completion of the senior year at Jefferson. While at Jefferson students must take and pass parts I and II of the NBME examinations.

Expenses. Undergraduate tuition in 1989–90 for residents of Pennsylvania is $1,877 per semester and for nonresidents $3,950 per semester. Tuition for 1989–90 at Jefferson Medical College is $17,150 for residents and nonresidents.

Financial Aid. Scholarships, loans, and grants are the sources of financial assistance available. For more information write the Office of Student Financial Aid, Pennsylvania State University, University Park, Pennsylvania 16802.

Application and Acceptance Policies

Filing of application:	
Earliest date	Sept. 1
Latest date	Nov. 30
Application fee	$35
Acceptance notice:	
Earliest date	March 1
Applicant's response to acceptance offer:	
Maximum time	4–6 weeks
Deposit to hold place in class	$50; nonrefundable
Starting date	June

Information on 1989–90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	*	*	314
Applicants Interviewed	33	62	95
New Entrants	19	18	37

*Data not provided.

Brown University

Address inquiries to:
Coordinator
Program in Liberal Medical Education
Brown University
Box G
Providence, Rhode Island 02912
(401) 863-2450

Purpose. The Program in Liberal Medical Education (PLME) offers a unique experience in medical education. It is designed as an eight-year continuum. The program combines liberal arts and professional education to enable each student to develop graduate level competence in a chosen field of scholarship. Great flexibility is built into the program. Each student develops an individualized educational plan in close collaboration with PLME faculty advisers.

Brown University has had a combined-degree program in medical education since the 1960s. The PLME is the primary route of admission to Brown University's medical school.

Requirements for Entrance. Students are selected for the PLME in the senior year of high school. There are no state residency requirements and no specific high school course requirements which applicants must meet. However, the Brown Admission Office recommends that applicants should have pursued the following: four years of English, with significant emphasis on writing; three years of college preparatory mathematics; three years of foreign language; two years of laboratory science above the freshman level; two years of history, including American history; at least one year of course work in the arts; and at least one year of elective academic subjects. Prospective science or engineering majors should have taken physics and chemistry as well as advanced mathematics. Familiarity with computers is recommended for all applicants. Applicants must take the SAT and three CEEB Achievement Tests. (Applicants may take the ACT if the SAT is not offered locally.)

Selection Factors. Students are selected on the basis of scholarship, accomplishment and promise, and intellectual curiosity. Those applicants who indicate an interest in pursuing an academic area to an advanced degree of scholarship are particularly sought. In addition, emotional maturity, character, motivation, sensitivity, and caring are personal characteristics considered in offering admission to an applicant. In the 1989–90 entering class, students usually were in the top 5 percent of their high school class and had achieved on the average a score of 650 on the SAT Verbal and 720 on the SAT Mathematics. An interview is not required.

Curriculum. The PLME leads to a baccalaureate degree and to the M.D. degree granted by Brown University.

Students must complete a baccalaureate degree in the field of their choice. Approximately half of the PLME students concentrate in the sciences, one-quarter in the social sciences, one-fifth in the humanities, and the remaining one-tenth have a double concentration.

The curriculum for both degrees generally requires eight years to complete. The curriculum is highly individualized. Students must pass Part II of the NBME examinations for graduation from the medical school.

The PLME has introduced several innovations in medical education, including a strong system of student advising.

Expenses. In 1989–90 the undergraduate tuition at Brown University is $14,375 per year plus $715 in yearly fees. The medical school tuition in 1989–90 is $17,700 plus $660 in student fees.

Financial Aid. For undergraduates in the first four years of the PLME, financial aid is awarded by the Financial Aid Office at Brown University as a package. Students are awarded monies via scholarships, work-study, and loans. During the last four years of the PLME, financial aid is administered by the Office of Financial Aid of the medical school. Both loans and scholarships are available, although loans are the most common form of assistance.

Application and Acceptance Policies

Filing of application:	
Earliest date	Nov. 1
Latest date	Jan. 1
Application fee	$55
Acceptance notice:	
Earliest date	Dec. 15
Latest date	April 13
Applicant's response to acceptance offer:	
Maximum time	May 1
Deposit to hold place in class	None
Starting date	Early Sept.

Information on 1989–90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	36	993	1,029
New Entrants	7	53	60

University of Wisconsin—Madison Medical School

Address inquiries to:
Medical Scholars Program
University of Wisconsin-Madison Medical School
1300 University Avenue, Room 1205
Madison, Wisconsin 53706
(608) 263-4920

Purpose. The Medical Scholars Program provides conditional admission to the University of Wisconsin—Madison Medical School for 50 highly qualified Wisconsin high school seniors. Medical scholars are a part of the medical school community and may participate in specially designed basic science and clinical experiences.

Requirements for Entrance. Students are selected for this program during the senior year of high school. Only residents of Wisconsin are eligible to apply. Applicants are expected to have completed the following courses by the time they graduate from high school: eight semesters of mathematics, eight semesters of English, six semesters of science (at least one semester each of biology, chemistry, and physics), six semesters of social studies, and four semesters of foreign language. They must take either the SAT or the ACT Assessment.

Selection Factors. To be eligible for application, a student must have attained a minimum academic GPA of 3.8 (includes English, mathematics, science, social studies, and foreign language in grades 9 through 11) and be ranked in the top five percent of his high school class or have a minimum combined SAT score of 1,300 or a minimum composite score of 30 on the ACT Assessment. In the 1989–90 entering class, the average GPA was 3.94, the average SAT Verbal score was 645, the average SAT Mathematics score was 737, and the average composite score on the ACT Assessment was 31. An interview is not required.

Curriculum. This program, normally seven to nine years in duration, allows students to obtain a bachelor's degree from the University of Wisconsin-Madison and an M.D. degree from the University of Wisconsin Medical School.

Students are expected to complete work for the bachelor's degree. Requirements for that degree vary according to the major chosen, but all include course work in the humanities, social sciences, and natural and physical sciences. The most frequent major chosen by students in this program is molecular biology, followed by zoology.

Educational innovations offered include the following: (a) a wide range of experiences in medical science research and exposure to clinical medicine allowing students to integrate undergraduate and medical education; (b) the opportunity to major in any subject; (c) completion of the undergraduate program in three to five years; and (d) a semester or year studying in a foreign country.

Students are expected to take Part I of the NBME examinations at the end of the second year of medical school, with a passing score required in order to begin clinical work. Passing both parts I and II is a graduation requirement.

Expenses. In 1989–90, residents of Wisconsin paid $2,004 per year to attend the University of Wisconsin-Madison and $8,663 per year at the University of Wisconsin Medical School.

Financial Aid. Scholarships and loans are available to students according to their need. More information can be obtained from the University of Wisconsin-Madison Financial Aid Office, 432 North Murray Street, Madison, Wisconsin 53706.

Application and Acceptance Policies

Filing of application:	
Earliest date	Sept. 30
Latest date	March 1
Application fee	None
Acceptance notice:	
Earliest date	April 15
Latest date	April 15
Applicant's response to acceptance offer:	
Maximum time	May 1
Deposit to hold place in class	None

Information on 1989–90 Entering Class

Applicants	120
New Entrants	50

University of Wisconsin—Milwaukee and Medical College of Wisconsin

Address inquiries to:
Target M.D. Program
College of Letters and Science
University of Wisconsin
P.O. Box 413
Milwaukee, Wisconsin 53201
(414) 229-6104

Purpose. The Target M.D. Program provides a well rounded premedical curriculum together with a rigorous four-year medical education to a group of carefully selected students who will benefit from an accelerated program.

Requirements for Entrance. Students are selected for the program during the senior year of high school. Residents and nonresidents of Wisconsin are eligible to apply. There are no specific high school course requirements currently. However, after 1990, students without four years of foreign language will have to enroll in summer school to complete the University of Wisconsin—Milwaukee foreign language requirement. Applicants are expected to take the ACT Assessment.

Selection Factors. An applicant's high school GPA and scores on the ACT Assessment are the academic factors taken into account in offering admission. In the 1989-90 entering class, most of the students were in the upper 5 percent of their high school class, and the composite ACT Assessment score averaged 29. Maturity, independence, commitment to a medical career, adaptability, and steadiness under stress are personal characteristics sought in applicants. An interview is required. For subsequent admission to the medical school phase of the program, students must take the MCAT in September of the third year in the program.

Curriculum. The seven-year program leads to a baccalaureate degree granted by the University of Wisconsin—Milwaukee and to the M.D. degree awarded by the Medical College of Wisconsin.

Students must complete work for a bachelor's degree. Requirements for that degree include 12 semester hour credits each in the humanities and the social sciences, 16 semester hour credits in the natural and physical sciences (including three in calculus), and three semester hour credits in fine arts. Most of the students in the program major in medical science, with biological sciences as the next most popular major.

The curriculum focuses on studies for the bachelor's degree during the first three years of the program and on studies for the M.D. degree during the last four years. While at the Medical College of Wisconsin, students must take parts I and II of the NBME examinations. They must pass Part I in order to enter the third year at the Medical College of Wisconsin.

Expenses. In 1989-90, undergraduate tuition for residents of Wisconsin is $2,054 per year and $6,187 for nonresidents. Tuition at the Medical College of Wisconsin in 1989-90 is $7,409 per year for residents and $17,500 per year for nonresidents.

Financial Aid. For the undergraduate phase of the Target M.D. Program, Wisconsin Outstanding Scholar Awards are available. More information about financial aid can be obtained from the Financial Aid Office at the above address.

Application and Acceptance Policies

Filing of application:	
Latest date	Feb. 1
Application fee	$20 or $50
Acceptance notice:	
Earliest date	March 21
Latest date	March 28
Applicant's response to acceptance offer:	
Maximum time	One month
Deposit to hold place in class	$50; nonrefundable
Starting date	Sept.

Information on 1989-90 Entering Class

Number of	*In-State*	*Out-of-State*	*Total*
Applicants	73	50	123
Applicants Interviewed	53	39	92
New Entrants	13	13	26